TOSHIBA

FILE NO. 030-200505

SERVICE MANUAL

LCD Color Television

37WL58P

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Published in Japan Sep. 2005 (YC)

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⚠ SERVICE SAFETY PRECAUTIONS

- The caution items shown here describe major safety issues and should always be observed.
- The meanings of the various indications are as follows.

⚠ **WARNING**	Indicates a hypothetical situation in which service personnel and nearby third parties, or even end users due to a product defect after the service operation is completed, could possibly be in danger of injury or even death in the event of operational error.
⚠ **CAUTION**	Indicates a hypothetical situation in which service personnel and nearby third parties, or even end users after the service operation is completed, could possibly be in danger of injury, or where there could be physical damage in the event of operational error.

* Physical damage means major damage to a home, furnishings and other possessions.

Examples of marks

SHOCK HAZARD	The △ indicates caution (including danger and warning). The actual meaning of this caution is indicated inside the △ or nearby illustrations or text. The example shown to the left indicates the danger of "electrical shock".
PROHIBIT DISASSEMBLING	The ⃠ indicates a forbidden action. The actual meaning of this caution is indicated inside the ⃠ or nearby illustrations or text. The example shown to the left indicates that disassembly is forbidden.
UNPULUG	The ● indicates a forced action (an action that must be performed). The actual meaning of this forced action is indicated by ● or nearby illustrations or text. The example shown to the left indicates that the power plug must be disconnected.

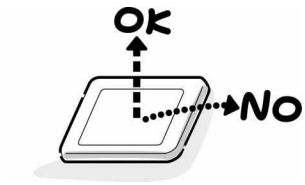
	⚠ WARNING
KEEP CHILDREN AWAY	• Always advise users to keep children away. There is danger of injury to children from tools, disassembled products, etc.
UNPULUG	• Always disconnect the power plug before starting work whenever power is not required. Failure to disconnect the power plug before starting work can result in electrical shock.
SHOCK HAZARD	• Depending on the model, use an insulation transformer or wear gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.
USE SPECIFIED PARTS	• Always use the replacement parts specified for the particular model when making repairs. The parts used in products have the necessary safety characteristics such as inflammability, voltage resistance, etc.; therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is included in a circuit diagram or parts list.
CAUTION FOR WIRING	• Parts mounting and routing of the wiring should be the same as that used originally. For safety purposes, insulating materials such as tubing or tape is sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wiring is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the original scheme.
CAUTION FOR ASSEMBLING / WIRING	• After a repair has been completed, reassemble all disassembled parts, and route and reconnect the wiring, in accordance with the original scheme. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.
CHECK INSULATION RESISTANCE	• After completing the work, disconnect the power plug from the outlet, remove the antenna, turn on the power switch. Then, use a 500V insulation resistance meter to check the insulation resistance of the antenna terminal, other metallic parts and between the prongs of the power plug to make sure that the insulation resistance is 1M Ω or more. The set will require inspection and repair if the insulation resistance is below this value.
PROHIBIT REMODELING	• Never remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous

HANDLING THE LCD MODULE

Safety Precautions
In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid. Also, never touch this fluid.
Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the eyes, immediately rinse the eyes thoroughly with running water.

Precautions for Handling the LCD Module
The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

1. When attaching the LCD module to the LCD cover, position it appropriately and fasten at the position where the display can be viewed most conveniently.



2. Carefully align the holes at all four corners of the LCD module with the corresponding holes in the LCD cover and fasten with screws. Do not strongly push on the module because any impact can adversely affect the performance. Also use caution when handling the polarized screen because it can easily be damaged.

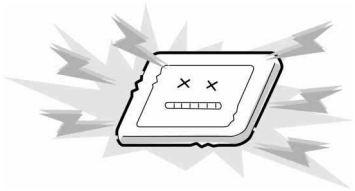
CAUTION	The metal edges of the LCD module are sharp, so use caution to avoid injury.

3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.
If the panel surface is extremely solied, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel. Pay attention not to scratch the panel surface.

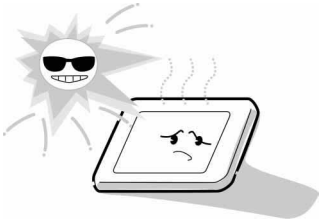
4. Leaving water or other fluids on the panel screen for an extended period of time can result in discoloration or stripes. Immediately remove any type of fluid from the screen.

5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.

6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.

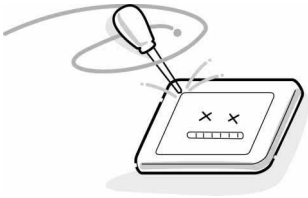


7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.

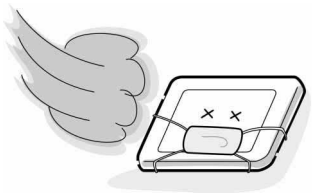


8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

9. Do not disassemble the LCD module. Such actions could result in improper operation.



10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.



SERVICE MODE

1. ENTERING SERVICE MODE

1) Press 🔇 button once on Remote Control.

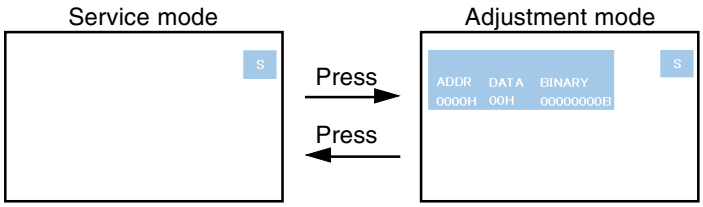
2) Press 🔇 button again and keep pressing.

3) While pressing the 🔇 button, press MENU button on TV set.

(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

Test signal selection :	⊸⊕ button (on Remote)
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)
Change of the data value :	Volume ◿ +/– (on TV or Remote)
Adjustment menu mode ON/OFF :	MENU button (on TV)
Initialization of the memory :	CALL + Channel button on TV (▲)
Reset the count of operating protect circuit to “00”:	CALL + Channel button on TV (▼)
“RCUT” selection :	1 button
“GCUT” selection :	2 button
“BCUT” selection :	3 button
“SCNT” selection :	4 button
“COLP” selection :	5 button – – – – – Color thickness correction
“TNTC” selection :	6 button
Automatic A/D Adjustment(PC, Component) :	7 button
Self diagnostic display ON/OFF :	9 button

note: Displayed differently as shown below, depending on the setting of the receiving color system.
COLP (PAL)
COLC (NTSC)
COLS (SECAM)

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

5. ADJUSTING THE DATA

1) Pressing of VOLUME +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA

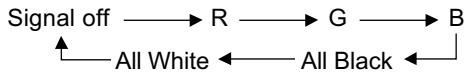
After replacing EEPROM IC, the following initialization is required.

1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of EEPROM IC has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above. Perform “Auto tune” on the owner’s manual.

CAUTION: Never attempt to initialize the data unless EEPROM IC has been replaced.

7. TEST SIGNAL SELECTION

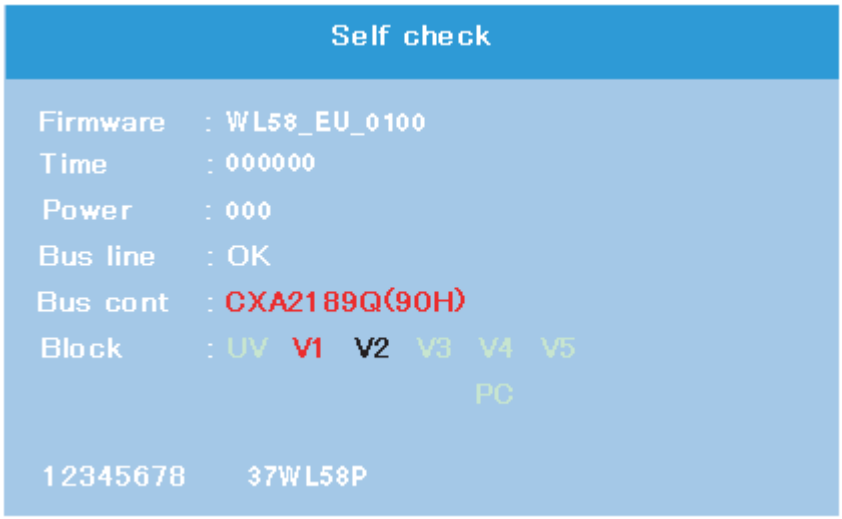
1) Every pressing of ⊖ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.



Signals	Picture
• Red raster • Green raster • Blue raster • All Black • All White	

8. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s is executed properly.
2) During diagnosis, the following displays are shown.



① Firmware :
Version information of microprocessor
In case of file name : WL58_EU and Version : 0100 indicates[WL58_EU_0100].

② Time : Total hour of turn the TV on. (Unit : H)

③ Power : Operation number of protecting circuit ----"000" is normal.
When indication is other than "000", overcurrent apt to flow, and circuit parts may possibly be damaged.

④ Bus line : --"OK" is normal
"SCL-GND"(Red indication) : SCL-GND short circuit
"SDA-GND"(Red indication) : SDA-GND short circuit
"SCL-SDA"(Red indication) : SCL-SDA short circuit

⑤ Bus cont : --- "OK" is normal.
NG is abnormal(Red indication), when
type name of semiconductor indicates.

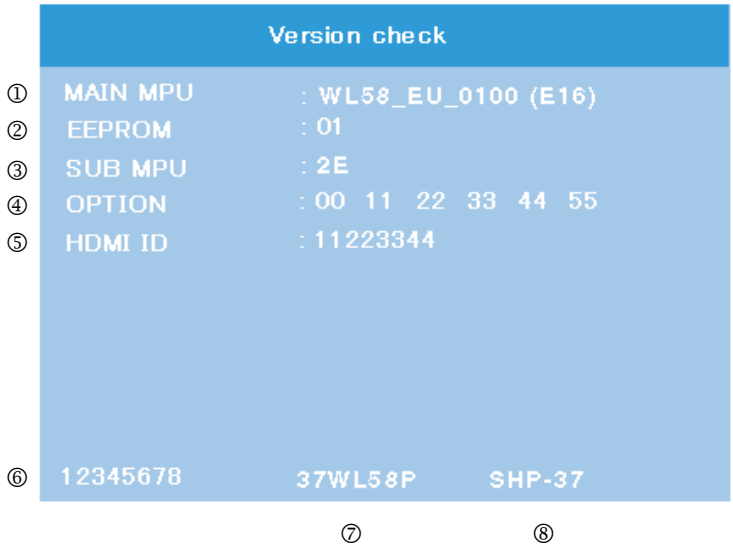
⑥ Block
UV : TV reception mode
V1 : VIDEO 1 input mode (→ 1)
V2 : VIDEO 2 input mode (→ 2)
V3 : VIDEO 3 input mode (→ 3)
V4 : COMPONENT VIDEO input mode (→ 4)
V5 : VIDEO 5 input mode (→ 5)

⑦ 8 digit : CD number

⑧ Model name (7 digit)

9. VERSION CHECK MODE

1) Press “9” button twice on Remote Control during display of adjustment menu in the service mode. The version of main MPU will begin to check.
2) During Version Check, the following displays are shown.



① MAIN MPU :
Version information of microprocessor
In case of file name : WL58_EU, Version 0100 for Code Program Version and (E16) for OSD Version indicates [WL58_EU_0100(E16)]

② EEPROM :
Version information of EEPROM : Display 1 byte data.

③ SUB MPU :
Version information of SUB MPU : Display 1 byte data.

④ OPTION :
Option information : Display six numbers of 1 byte data.

⑤ HDMI ID :
HDMI ID information : Display 4 byte data.

⑥ CD number : Display 8 digit number

⑦ Model name : Display 7 digit number

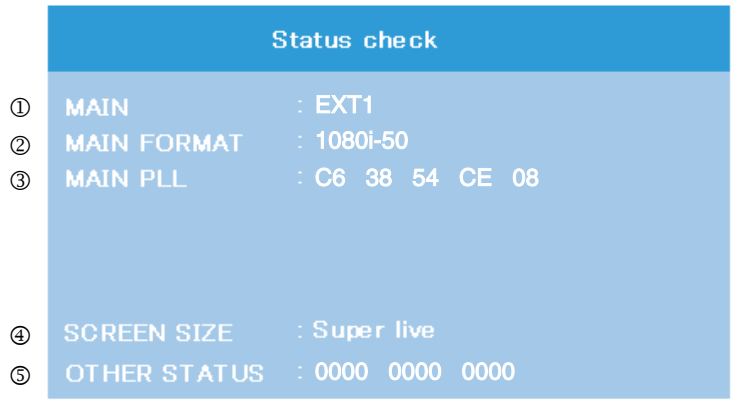
⑧ Panel Vender information display
The following Panel Vender and screen size are displayed.

Panel	Panel Vender	Screen Size(Inch)
LCD	LPL	-23
	SHP	-26
	CMO	-32
		-37
		-42
PDP	LG	-42

Example : SHP-37 indicates that Vender is SHP and Screen Size is 37 inch.

10. STATUS CHECK MODE

1) Press “9” button thrice on Remote Control during display of adjustment menu in the service mode. The status of this model will begin to check.
2) During Status Check, the following displays are shown.


Status check
① MAIN : EXT1
② MAIN FORMAT : 1080i-50
③ MAIN PLL : C6 38 54 CE 08
④ SCREEN SIZE : Super live
⑤ OTHER STATUS : 0000 0000 0000

① MAIN :
Main source information :
Display RF position number (0 - 99) on the main screen, or Input Source (EXT1/2/3/HDMI etc.)

② MAIN FORMAT :
Display Video and PC format information

③ MAIN PLL :
Main PLL information : Display five numbers of 1 byte data.

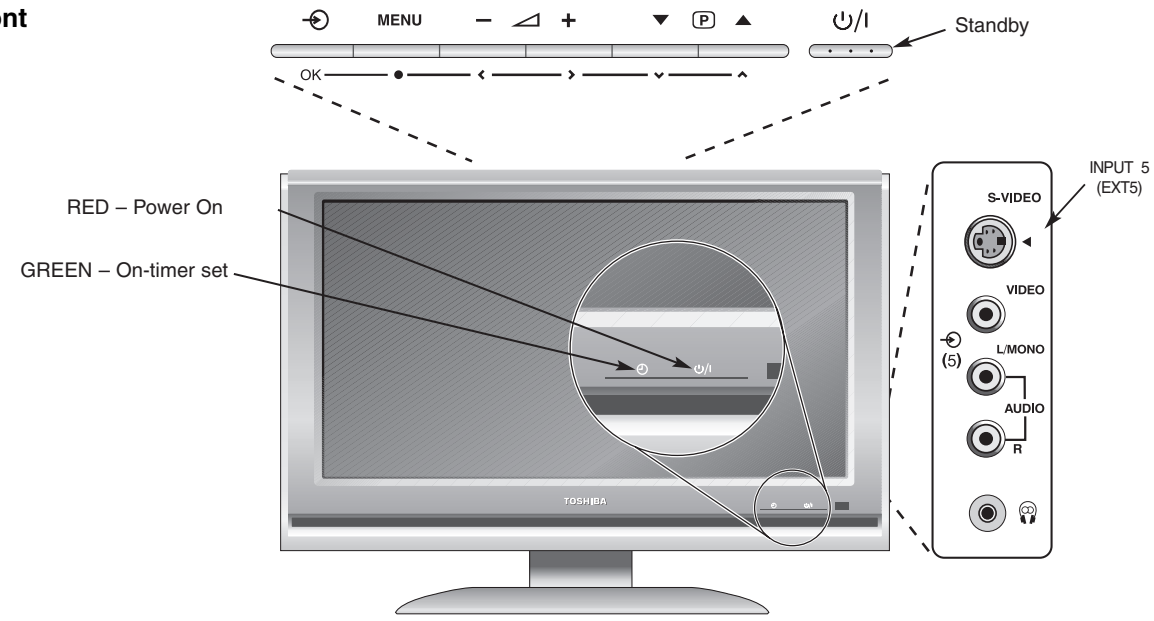
④ SCREEN SIZE :
Display the screen size as follows.

Super live
Cinema
Subtitle
14:9
Wide
4:3

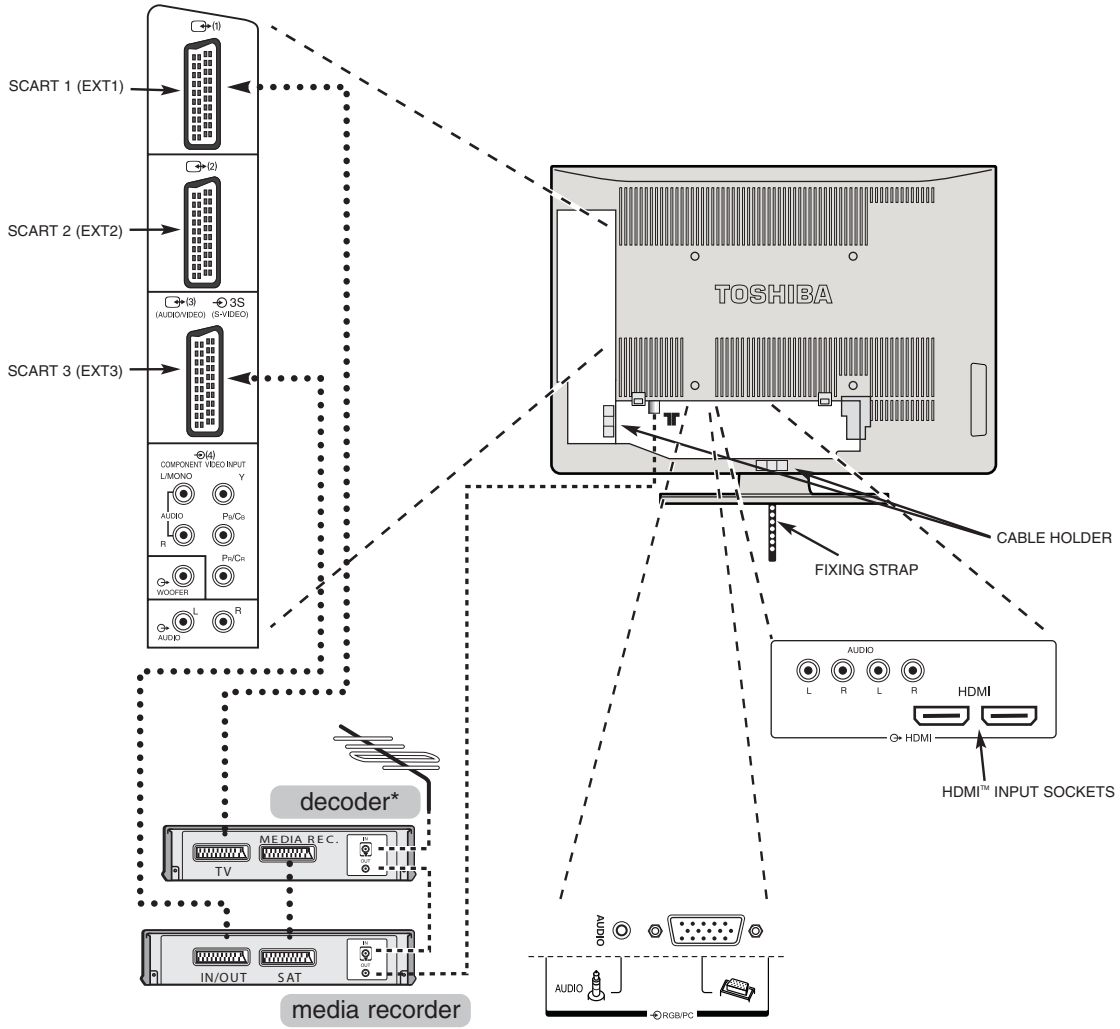
⑤ OTHER STATUS :
Other status information : Display three numbers of 2 byte data.

LOCATION OF CONTROLS

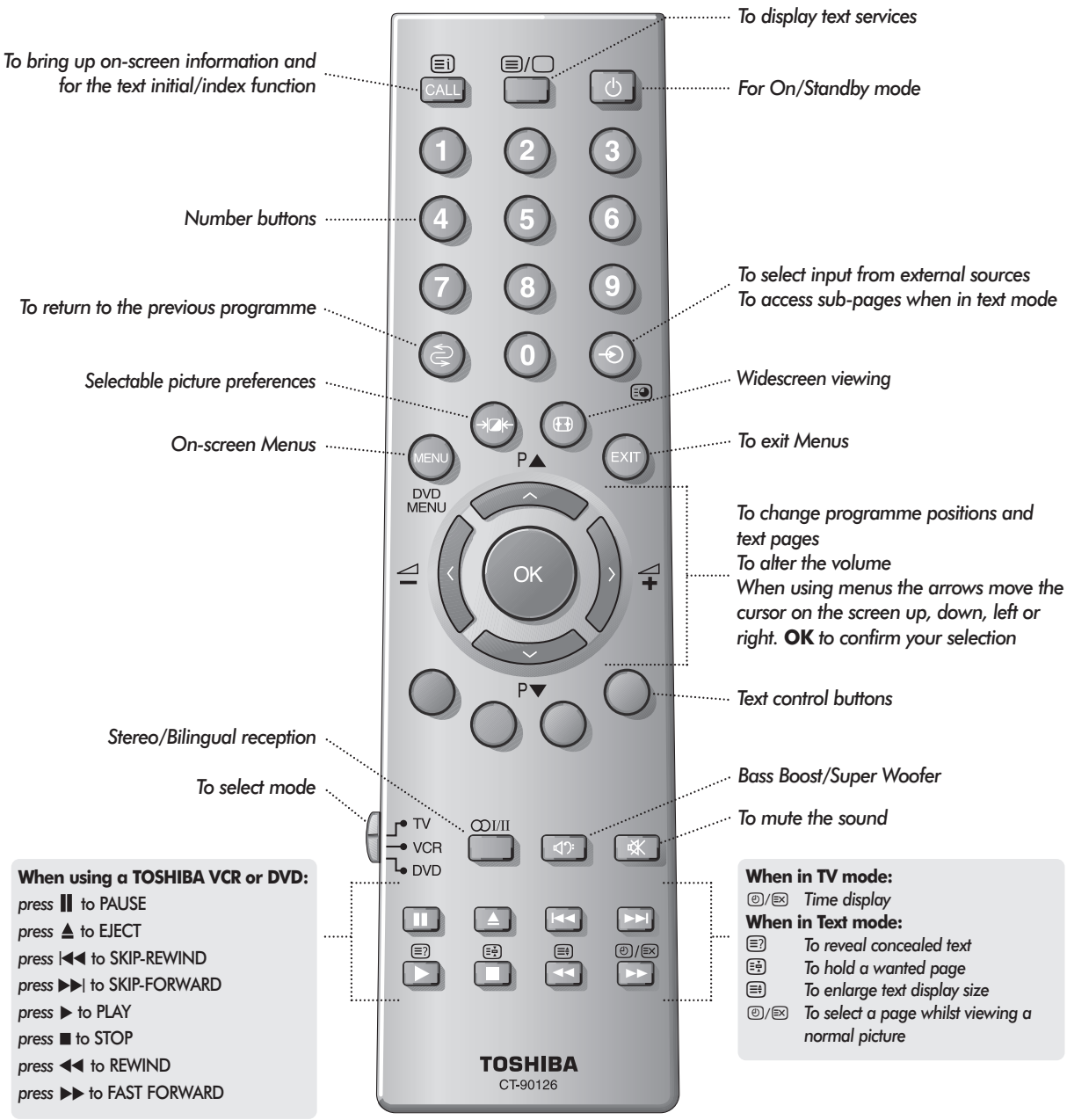
Front



Back



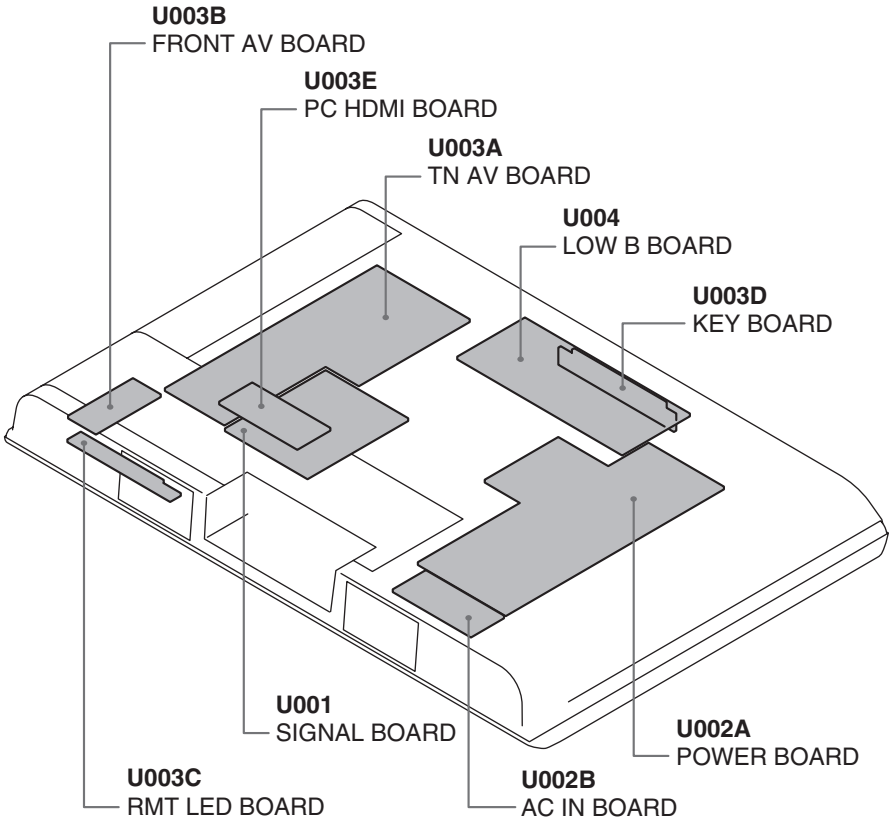
Remote control



When using a TOSHIBA VCR or DVD:
press ⏸ to PAUSE
press ⏏ to EJECT
press ⏮ to SKIP-REWIND
press ⏭ to SKIP-FORWARD
press ▶ to PLAY
press ■ to STOP
press ◀◀ to REWIND
press ▶▶ to FAST FORWARD

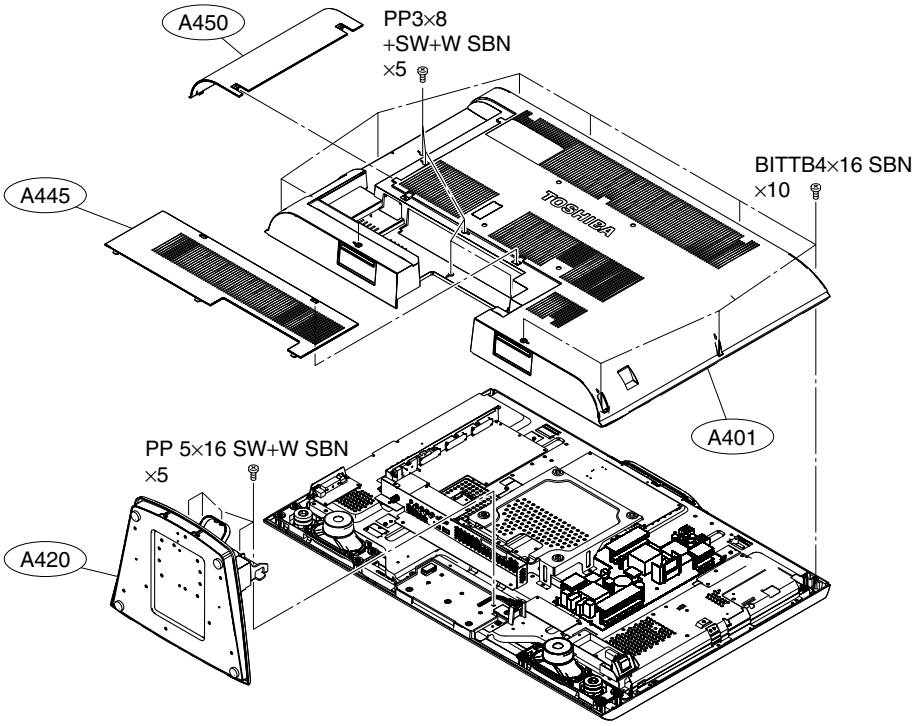
When in TV mode:
Time display
When in Text mode:
To reveal concealed text
To hold a wanted page
To enlarge text display size
To select a page whilst viewing a normal picture

LAYOUT OF MAJOR BOARDS

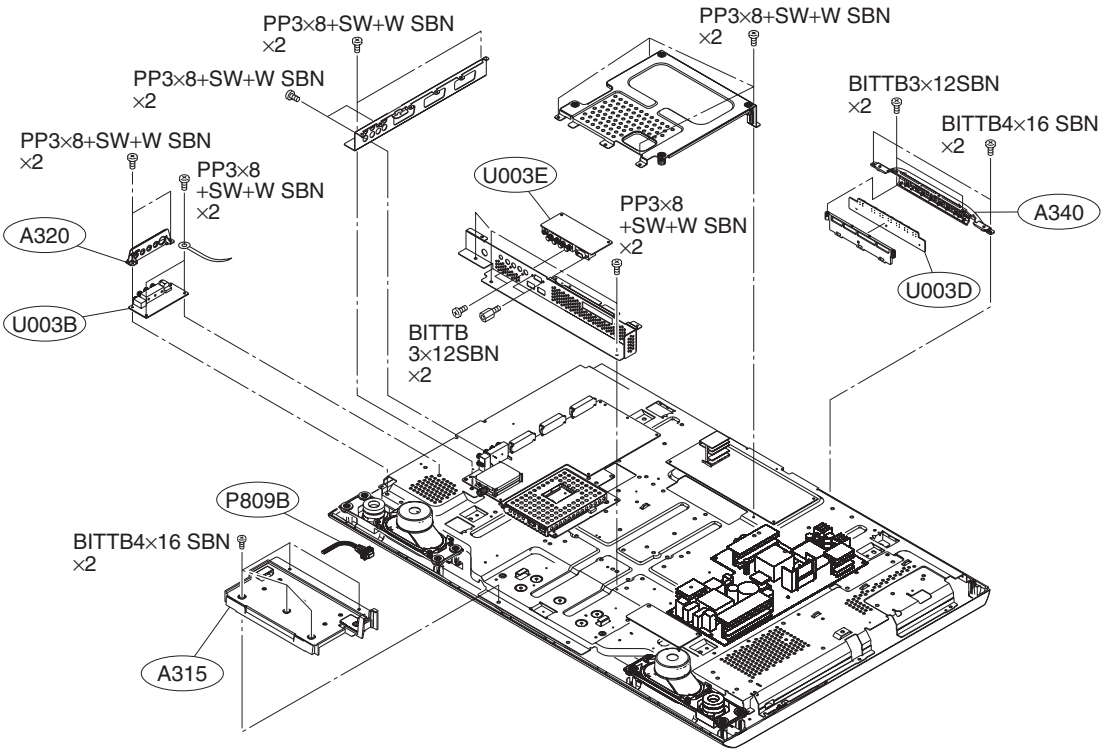


MECHANICAL DISASSEMBLY

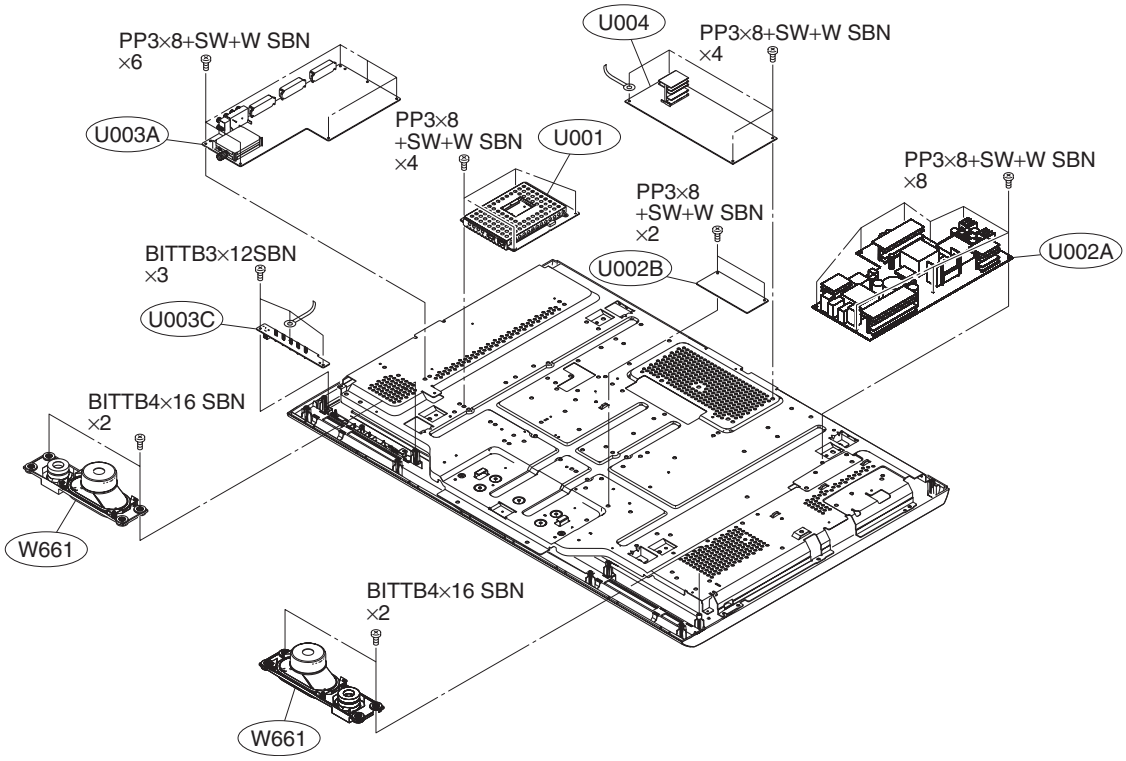
1. Remove the stand (foot) and back cover.



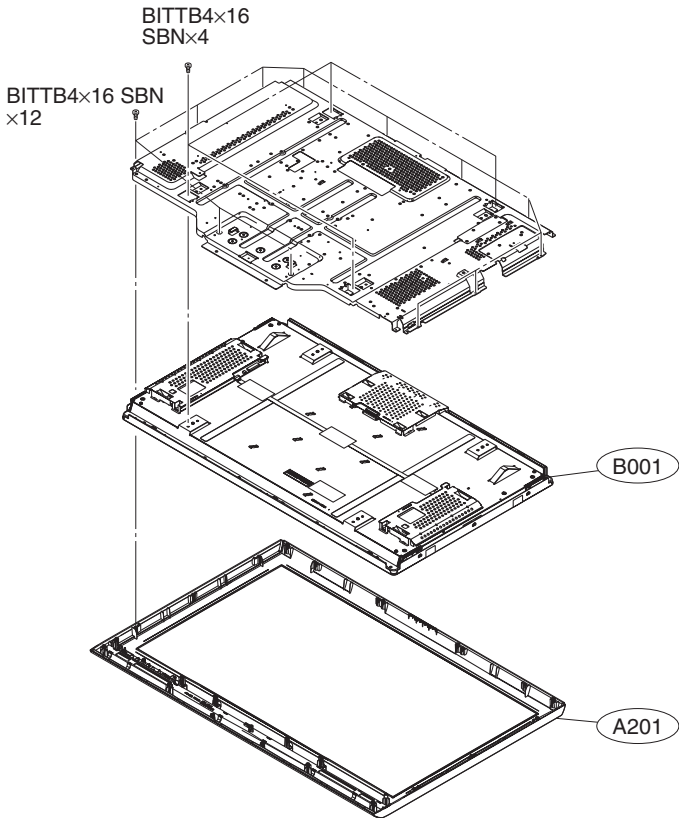
2. Remove the boards (FRONT AV,PC HDMI, KEY) and back center cover.



3. Remove the boards (POWER, AC-IN, SIGNAL, LOW B, TN AV, RMT LED) and speaker.

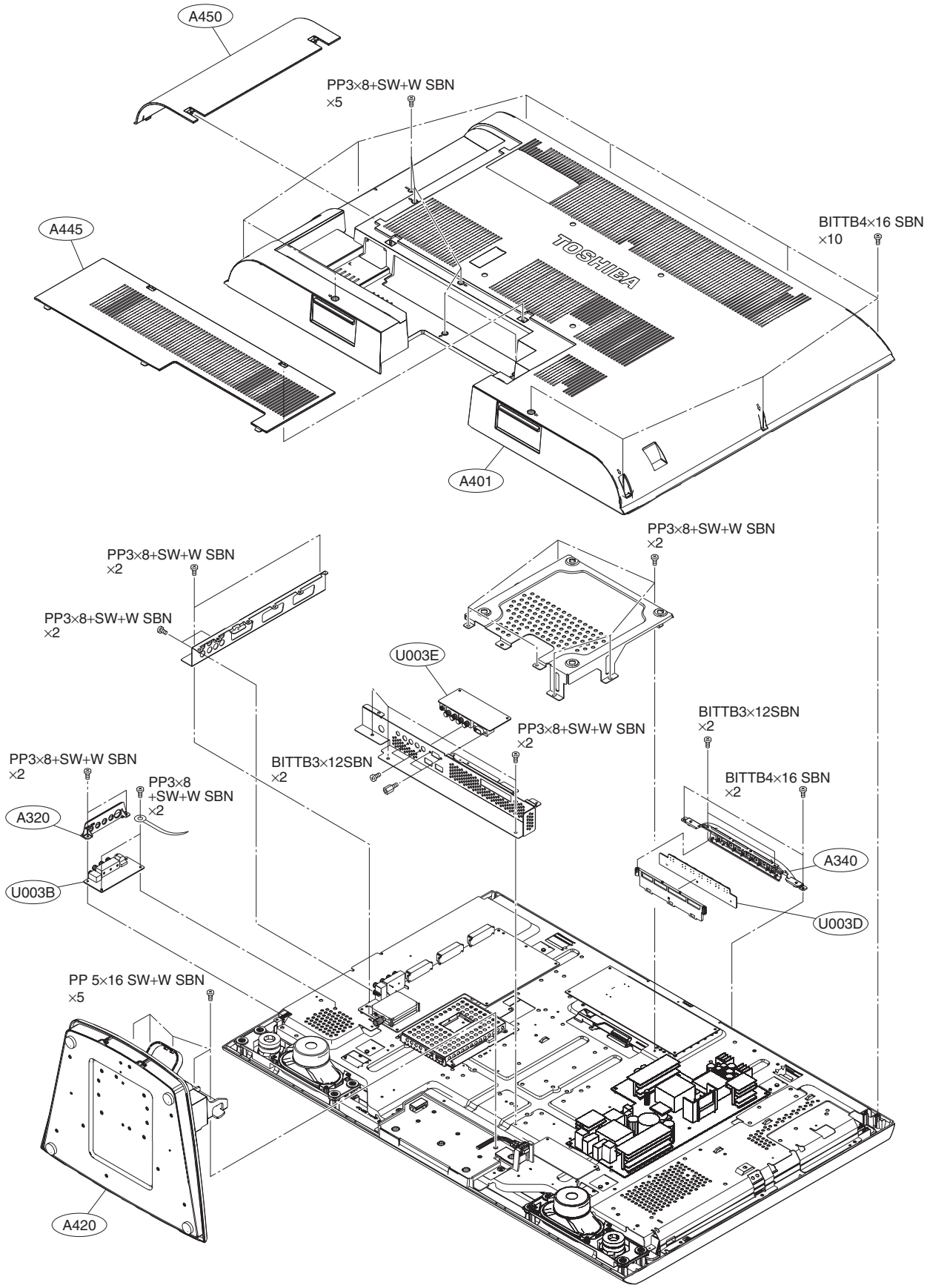


4. Remove the display.

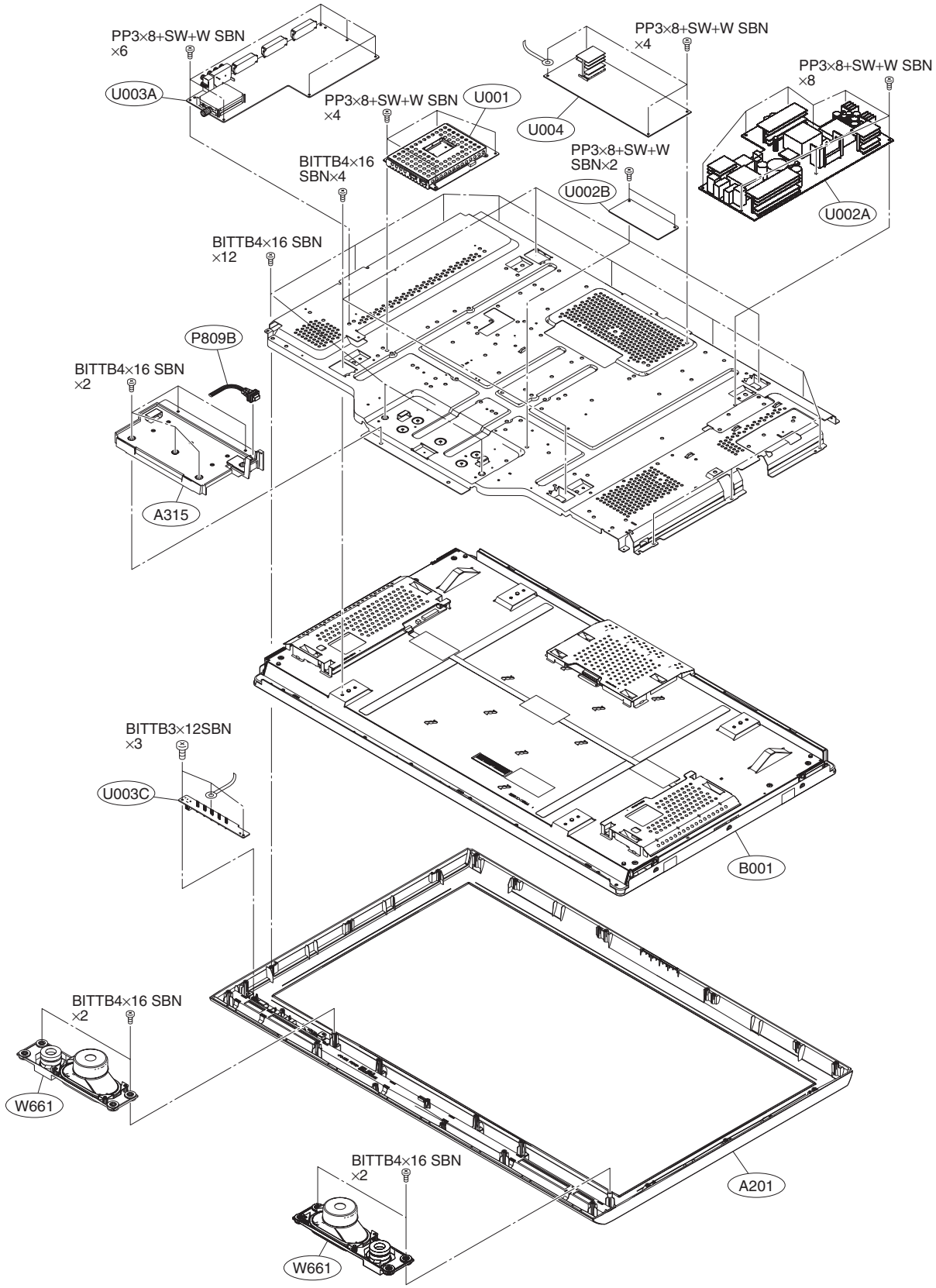


EXPLODED VIEWS

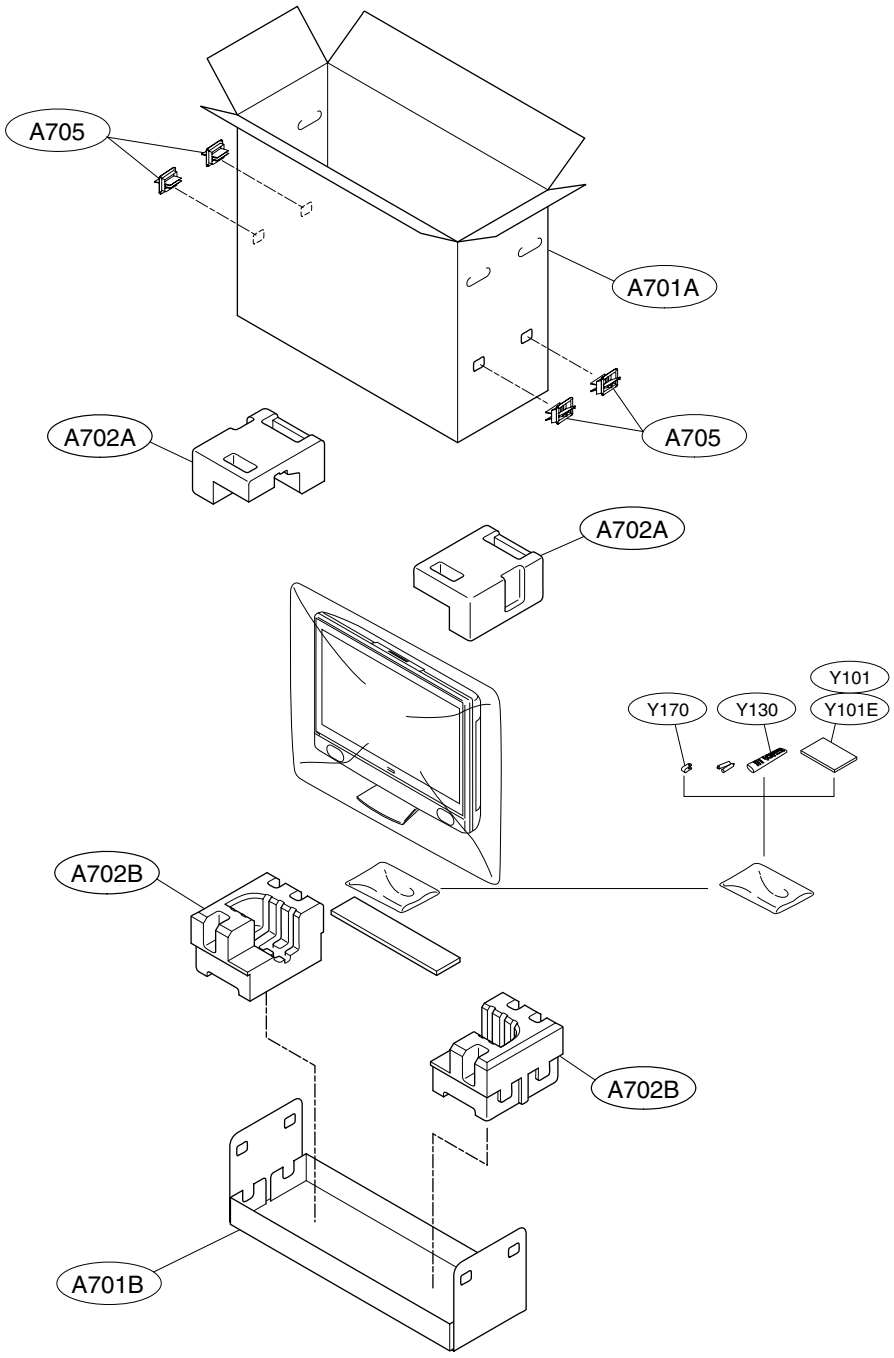
1. Chassis Block



2. Main Block


PP3×8+SW+W SBN ×6
U003A
PP3×8+SW+W SBN ×4
U001
PP3×8+SW+W SBN ×4
U004
PP3×8+SW+W SBN ×8
BITTB4×16 SBN×4
PP3×8+SW+W SBN×2
U002B
U002A
BITTB4×16 SBN ×12
P809B
BITTB4×16 SBN ×2
A315
BITTB3×12SBN ×3
U003C
B001
BITTB4×16 SBN ×2
W661
BITTB4×16 SBN ×2
A201
W661

PACKING DISASSEMBLY



CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SERVICE SAFETY PRECAUTIONS" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.

The PC board assembly with ∗ mark is no longer available after the end of the production.

Model : 37WL58P

Capacitors	CD	: Ceramic Disk	PF	: Plastic Film	EL	: Electrolytic
Resistors	CF	: Carbon Film	CC	: Carbon Composition	MF	: Metal Film
	OMF	: Oxide Metal Film	VR	: Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Parts No.	Description
CAPACITORS		
C101	76109103	CERAMIC CHIP, 50V B 0.01UF K
C102	76073019	ELECTROLYTIC, 10V 470UF M 3A
C103	76109102	CERAMIC CHIP, 50V B 1000PF K
C104	76619143	ELECTROLYTIC CHIP, 50V 4.7UF M
C105	76073019	ELECTROLYTIC, 10V 470UF M 3A
C113	76109102	CERAMIC CHIP, 50V B 1000PF K
C117	76109103	CERAMIC CHIP, 50V B 0.01UF K
C118	76109103	CERAMIC CHIP, 50V B 0.01UF K
C162	76105101	CERAMIC CHIP, 50V CH 100PF J
C164	76100103	CERAMIC CHIP, 50V F 0.01UF Z
C190	76092730	CERAMIC CHIP, 16V B 0.1UF K
C501	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C502	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C503	76619046	ELECTROLYTIC CHIP, 16V 470UF
C504	76109103	CERAMIC CHIP, 50V B 0.01UF K
C505	76619046	ELECTROLYTIC CHIP, 16V 470UF
C506	76109103	CERAMIC CHIP, 50V B 0.01UF K
C514	76665221	ELECTROLYTIC, 10V 220UF M 3A
C516	76105110	CERAMIC CHIP, 50V CH 11PF J
C517	76092785	CERAMIC CHIP, 10V B 0.47UF K
C519	76619048	ELECTROLYTIC CHIP, 25V 4.7UF M
C521	76092733	CERAMIC CHIP, 50V B 0.022UF K
C524	76109103	CERAMIC CHIP, 50V B 0.01UF K
C526	76109103	CERAMIC CHIP, 50V B 0.01UF K
C527	76619071	ELECTROLYTIC CHIP, 50V 2.2UF
C529	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C530	76619157	ELECTROLYTIC CHIP, 16V 100UF
C605	76109102	CERAMIC CHIP, 50V B 1000PF K
C606	76109102	CERAMIC CHIP, 50V B 1000PF K
C612	76664102	ELECTROLYTIC, 6.3V 1000UF M 3A
C631	76619102	ELECTROLYTIC CHIP, 16V 47UF M
C632	76092731	CERAMIC CHIP, 16V B 1UF K
C651	76092463	CERAMIC CHIP, 16V B 0.22UF K
C652	76092463	CERAMIC CHIP, 16V B 0.22UF K
C653	76092538	CERAMIC CHIP, 10V F 1UF Z
C655	76109103	CERAMIC CHIP, 50V B 0.01UF K
C661	76109102	CERAMIC CHIP, 50V B 1000PF K
C662	76109102	CERAMIC CHIP, 50V B 1000PF K
C663	76619100	ELECTROLYTIC CHIP, 16V 10UF M
C665	76669479	ELECTROLYTIC, 50V 4.7UF M
C666	76669479	ELECTROLYTIC, 50V 4.7UF M
C671	76669100	ELECTROLYTIC, 50V 10UF M
C674	76669100	ELECTROLYTIC, 50V 10UF M
C677	76109681	CERAMIC CHIP, 50V B 680PF K
C678	76109681	CERAMIC CHIP, 50V B 680PF K

Location No.	Parts No.	Description
C680	76668102	ELECTROLYTIC, 35V 1000UF M 3A
C681	76668102	ELECTROLYTIC, 35V 1000UF M 3A
C682	76668102	ELECTROLYTIC, 35V 1000UF M 3A
C690	76815103	CERAMIC CHIP, 50V B 0.01UF K
C694	76285104	CERAMIC CHIP, 50V B 0.1UF K
C696	76285104	CERAMIC CHIP, 50V B 0.1UF K
⚠ C801	76168007	MT PLA AC275V 1UF M
⚠ C802	76503508	MT PLA PCX2 337 11474
⚠ C806	76092555	CERAMIC DISC, AC250V E 1000PF M
⚠ C807	76092555	CERAMIC DISC, AC250V E 1000PF M
⚠ C808	76092553	CERAMIC DISC, AC250V B 470PF K
⚠ C809	76092553	CERAMIC DISC, AC250V B 470PF K
C812	76109102	CERAMIC CHIP, 50V B 1000PF K
C814	76109102	CERAMIC CHIP, 50V B 1000PF K
C815	76073037	ELECTROLYTIC, 16V 47UF M 3A
C815A	23960136	ADHESIVE, SILICONE, TSE3843-W
C816	76109102	CERAMIC CHIP, 50V B 1000PF K
C817	76109102	CERAMIC CHIP, 50V B 1000PF K
C818	76669010	ELECTROLYTIC, 50V 1UF M
C819	76539684	PLASTIC FILM, 50V 0.68UF J
C820	76125010	CHEMICON CE69R 450V 270UF M 3H
C821	76125011	CHEMICON CE04R 450V 82UF M 4A
C822	76214103	CERAMIC DISC, 500V B 0.01UF K
C824	76168008	MT PLA 450V 1UF K
C825	76168008	MT PLA 450V 1UF K
C826	76092339	CERAMIC DISC, 2KV 330PF K
C827	76092339	CERAMIC DISC, 2KV 330PF K
C840	76125009	CHEMICON 450V 47UF M
C843	76166001	CERAMIC DISK CC45 SL 3.15KV 47PF J
C844	76669479	ELECTROLYTIC, 50V 4.7UF M
C845	76073196	ELECTROLYTIC, 50V 22UF M 3A
C846	76073140	ELECTROLYTIC CE04P 10V 680UF M 3A
C847	76665471	ELECTROLYTIC, 10V 470UF M
C848	76214471	CERAMIC DISC, 500V B 470PF K
C849A	23960136	ADHESIVE, SILICONE, TSE3843-W
C860	76214103	CERAMIC DISC, 500V B 0.01UF K
C861	76503053	PLASTIC FILM, 63V 1UF J
C862	76669229	ELECTROLYTIC, 50V 2.2UF M
C863	76503049	PLASTIC FILM, 63V 0.47UF J
C864	76567224	PLASTIC FILM, 50V 0.22UF J
C865	76567224	PLASTIC FILM, 50V 0.22UF J
C866	76092341	CERAMIC DISC, 2KV R 470PF K
C868	76435221	CERAMIC DISC, 500V SL 220PF J
C869	76435221	CERAMIC DISC, 500V SL 220PF J
⚠ C870	76503425	PLASTIC FILM CQ92 3D2J473J-K5
C872	76073189	ELECTROLYTIC, 35V 1000UF M

Location No.	Parts No.	Description
C873	76073189	ELECTROLYTIC, 35V 1000UF M
C876	76073204	ELECTROLYTIC CE04P 50V 330UF M 3A
C877	76669229	ELECTROLYTIC, 50V 2.2UF M
C878	76503041	PLASTIC FILM , 63V 0.1UF J
C880	76503229	PLASTIC FILM, 1250VH 1000PF H
C881	76092337	CERAMIC DISC, 2KV 220PF K
C882	76567334	PLASTIC FILM, 50V 0.33UF J
C883	76212221	CERAMIC DISC, 50V B 220PF K
C884	76073196	ELECTROLYTIC, 50V 22UF M 3A
C885	76214471	CERAMIC DISC, 500V B 470PF K
C886	76212152	CERAMIC DISC, 50V B 1500PF K
C887	76214471	CERAMIC DISC, 500V B 470PF K
C888	76073189	ELECTROLYTIC, 35V 1000UF M
C889	76073189	ELECTROLYTIC, 35V 1000UF M
C890	76796102	ELECTROLYTIC, 35V 1000UF M
C891	76214471	CERAMIC DISC, 500V B 470PF K
C892	76676100	ELECTROLYTIC, 100V 10UF M 3A
C893	76747220	ELECTROLYTIC, 50V 22UF M 7L 3A
C894	76214471	CERAMIC DISC, 500V B 470PF K
C895	76073188	ELECTROLYTIC, 35V 680UF M
C896	76073188	ELECTROLYTIC, 35V 680UF M
C897	76796102	ELECTROLYTIC, 35V 1000UF M
C898	76669010	ELECTROLYTIC, 50V 1UF M
C8171	76092730	CERAMIC CHIP, 16V B 0.1UF K
C8191	76092730	CERAMIC CHIP, 16V B 0.1UF K
C8210	76105331	CERAMIC CHIP, 50V CH 330PF J
C8211	76815473	CERAMIC CHIP, 50V B 0.047UF K
C8212	76092178	CERAMIC CHIP, 25V B 0.1UF K
C8213	76109102	CERAMIC CHIP, 50V B 1000PF K
C8241	76073196	ELECTROLYTIC, 50V 22UF M 3A
C8250	76092341	CERAMIC DISC, 2KV R 470PF K
C8251	76434100	CERAMIC DISC, 500V SL 10PF D
C8390	76109102	CERAMIC CHIP, 50V B 1000PF K
C8401	76092733	CERAMIC CHIP, 50V B 0.022UF K
C8402	76092733	CERAMIC CHIP, 50V B 0.022UF K
C8403	76669470	ELECTROLYTIC, 50V 47UF M
C8490	76669010	ELECTROLYTIC, 50V 1UF M
C8601	76591682	PLASTIC FILM, 50V 6800PF J
C8602	76212101	CERAMIC DISC, 50V B 100PF K
C8605	76285104	CERAMIC CHIP, 50V B 0.1UF K
C8701	76567224	PLASTIC FILM, 50V 0.22UF J
C8702	76287224	CHIP CER 50V F 224Z GRM319F11H224ZA01D
C8703	76109102	CERAMIC CHIP, 50V B 1000PF K
C8801	76092730	CERAMIC CHIP, 16V B 0.1UF K
C8802	76092883	CERAMIC CHIP, 50V B 0.1UF K
C8891	76503049	PLASTIC FILM, 63V 0.47UF J
CB01	76202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CB02	76202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CB03	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CB04	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CB05	76202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CB38	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CC11	76109102	CERAMIC CHIP, 50V B 1000PF K
CC12	76109102	CERAMIC CHIP, 50V B 1000PF K
CC14	76109102	CERAMIC CHIP, 50V B 1000PF K
CC15	76109102	CERAMIC CHIP, 50V B 1000PF K
CC16	76109102	CERAMIC CHIP, 50V B 1000PF K
CC17	76109102	CERAMIC CHIP, 50V B 1000PF K
CC21	76109102	CERAMIC CHIP, 50V B 1000PF K
CC33	76109102	CERAMIC CHIP, 50V B 1000PF K
CC40	76109102	CERAMIC CHIP, 50V B 1000PF K
CC41	76109102	CERAMIC CHIP, 50V B 1000PF K
CC59	76109102	CERAMIC CHIP, 50V B 1000PF K
CC60	76109102	CERAMIC CHIP, 50V B 1000PF K
CC61	76109102	CERAMIC CHIP, 50V B 1000PF K
CC62	76109102	CERAMIC CHIP, 50V B 1000PF K
CC63	76109102	CERAMIC CHIP, 50V B 1000PF K
CC64	76109102	CERAMIC CHIP, 50V B 1000PF K
CC65	76109102	CERAMIC CHIP, 50V B 1000PF K
CC66	76109102	CERAMIC CHIP, 50V B 1000PF K
CC67	76109102	CERAMIC CHIP, 50V B 1000PF K
CC68	76109102	CERAMIC CHIP, 50V B 1000PF K
CC69	76109102	CERAMIC CHIP, 50V B 1000PF K
CC70	76109102	CERAMIC CHIP, 50V B 1000PF K
CC74	76109102	CERAMIC CHIP, 50V B 1000PF K
CC75	76109102	CERAMIC CHIP, 50V B 1000PF K

Location No.	Parts No.	Description
CC79	76109102	CERAMIC CHIP, 50V B 1000PF K
CC82	76109102	CERAMIC CHIP, 50V B 1000PF K
CE10	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE11	76539474	PLASTIC FILM, 50V 0.47UF J
CE12	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE60	76073186	ELECTROLYTIC, 35V 470UF M
CE61	76617028	ELECTROLYTIC, 16V 1200UF M
CE62	76073020	ELECTROLYTIC, 10V 1000UF M 3A
CE63	76539104	PLASTIC FILM, 50V 0.1UF J
CE64	76539104	PLASTIC FILM, 50V 0.1UF J
CE65	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE66	76539474	PLASTIC FILM, 50V 0.47UF J
CE67	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE90	76073186	ELECTROLYTIC, 35V 470UF M
CE91	76617028	ELECTROLYTIC, 16V 1200UF M
CE92	76666471	ELECTROLYTIC, 16V 470UF M
CE93	76539104	PLASTIC FILM, 50V 0.1UF J
CE94	76539104	PLASTIC FILM, 50V 0.1UF J
CE95	76668101	ELECTROLYTIC, 35V 100UF M 3A
CR26	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CR27	76619157	ELECTROLYTIC CHIP, 16V 100UF
CR28	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CS01	76092731	CERAMIC CHIP, 16V B 1UF K
CS02	76092515	CERAMIC CHIP, 16V F 4.7UF Z
CS03	76092726	CERAMIC CHIP, 10V B 2.2UF K
CS04	76092726	CERAMIC CHIP, 10V B 2.2UF K
CS05	76092726	CERAMIC CHIP, 10V B 2.2UF K
CS06	76092726	CERAMIC CHIP, 10V B 2.2UF K
CS08	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS09	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS10	76092628	CERAMIC CHIP, 6.3V B 10UF K
CS11	76092628	CERAMIC CHIP, 6.3V B 10UF K
CS12	76109473	CERAMIC CHIP, 25V B 0.047UF K
CS13	76092628	CERAMIC CHIP, 6.3V B 10UF K
CS14	76092628	CERAMIC CHIP, 6.3V B 10UF K
CS15	76092628	CERAMIC CHIP, 6.3V B 10UF K
CS16	76092628	CERAMIC CHIP, 6.3V B 10UF K
CS26	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CS39	76092573	CERAMIC CHIP, 16V B 0.47UF K
CS40	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS41	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS42	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS43	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS44	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS45	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS46	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS47	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS48	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS49	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS50	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS51	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS52	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS53	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS54	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS55	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS56	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS57	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CS62	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS64	76619101	ELECTROLYTIC CHIP, 16V 22UF M
CS85	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS86	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CT01	76092790	CERAMIC CHIP CK732B 6.3V 10UF K
CT04	76105151	CERAMIC CHIP, 50V CH 150PF J
CT05	76092790	CERAMIC CHIP CK732B 6.3V 10UF K
CT06	76092790	CERAMIC CHIP CK732B 6.3V 10UF K
CT07	76092790	CERAMIC CHIP CK732B 6.3V 10UF K
CT08	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CT09	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV01	76666471	ELECTROLYTIC, 16V 470UF M
CV02	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV03	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV04	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV12	76092731	CERAMIC CHIP, 16V B 1UF K
CV13	76092731	CERAMIC CHIP, 16V B 1UF K
CV14	76092731	CERAMIC CHIP, 16V B 1UF K
CV15	76100104	CERAMIC CHIP, 25V F 0.1UF Z

Location No.	Parts No.	Description
CV16	76092731	CERAMIC CHIP, 16V B 1UF K
CV17	76092731	CERAMIC CHIP, 16V B 1UF K
CV18	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV19	76092731	CERAMIC CHIP, 16V B 1UF K
CV20	76092731	CERAMIC CHIP, 16V B 1UF K
CV21	76092731	CERAMIC CHIP, 16V B 1UF K
CV22	76092731	CERAMIC CHIP, 16V B 1UF K
CV23	76092731	CERAMIC CHIP, 16V B 1UF K
CV24	76092731	CERAMIC CHIP, 16V B 1UF K
CV25	76092731	CERAMIC CHIP, 16V B 1UF K
CV26	76092731	CERAMIC CHIP, 16V B 1UF K
CV27	76092731	CERAMIC CHIP, 16V B 1UF K
CV28	76092731	CERAMIC CHIP, 16V B 1UF K
CV29	76092731	CERAMIC CHIP, 16V B 1UF K
CV33	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV34	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV35	76619157	ELECTROLYTIC CHIP, 16V 100UF
CV36	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV40	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV41	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV50	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CV51	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CV52	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CV53	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV54	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV55	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV56	76619157	ELECTROLYTIC CHIP, 16V 100UF
CV57	76619157	ELECTROLYTIC CHIP, 16V 100UF
CV58	76619157	ELECTROLYTIC CHIP, 16V 100UF
CV59	76666471	ELECTROLYTIC, 16V 470UF M
CV60	76666471	ELECTROLYTIC, 16V 470UF M
CV61	76666471	ELECTROLYTIC, 16V 470UF M
CV62	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV63	76666471	ELECTROLYTIC, 16V 470UF M
CV72	76619101	ELECTROLYTIC CHIP, 16V 22UF M
CV121	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV122	76105101	CERAMIC CHIP, 50V CH 100PF J
CY01	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CY02	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CY03	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CY650	76109103	CERAMIC CHIP, 50V B 0.01UF K
RESISTORS		
R103	76011101	CHIP, 1/20W 100 OHM J
R104	76011103	CHIP, 1/20W 10K OHM J
R105	76011273	CHIP, 1/20W 27K OHM J
R107	76000445	CHIP JUMPER, 1608TYPE
R108	76000445	CHIP JUMPER, 1608TYPE
R114	76000445	CHIP JUMPER, 1608TYPE
R167	76011101	CHIP, 1/20W 100 OHM J
R169	76000445	CHIP JUMPER, 1608TYPE
R170	76011682	CHIP, 1/20W 6.8K OHM J
R501	76011682	CHIP, 1/20W 6.8K OHM J
R502	76011272	CHIP, 1/20W 2.7K OHM J
R504	76011101	CHIP, 1/20W 100 OHM J
R505	76011101	CHIP, 1/20W 100 OHM J
R506	76011273	CHIP, 1/20W 27K OHM J
R507	76011392	CHIP, 1/20W 3.9K OHM J
R508	76011682	CHIP, 1/20W 6.8K OHM J
R512	76011101	CHIP, 1/20W 100 OHM J
R514	76011102	CHIP, 1/20W 1K OHM J
R607	76011223	CHIP, 1/20W 22K OHM J
R617	76011104	CHIP, 1/20W 100K OHM J
R620	76011223	CHIP, 1/20W 22K OHM J
R621	76011472	CHIP, 1/20W 4.7K OHM J
R650	76011102	CHIP, 1/20W 1K OHM J
R651	76011473	CHIP, 1/20W 47K OHM J
R652	76011103	CHIP, 1/20W 10K OHM J
R653	76011223	CHIP, 1/20W 22K OHM J
R654	76011103	CHIP, 1/20W 10K OHM J
R655	76011222	CHIP, 1/20W 2.2K OHM J
R664	76011104	CHIP, 1/20W 100K OHM J
R665	76011104	CHIP, 1/20W 100K OHM J
R667	76011104	CHIP, 1/20W 100K OHM J
R670	76011472	CHIP, 1/20W 4.7K OHM J
R671	76011182	CHIP, 1/20W 1.8K OHM J

Location No.	Parts No.	Description
R672	76011472	CHIP, 1/20W 4.7K OHM J
R673	76011182	CHIP, 1/20W 1.8K OHM J
R675	76011102	CHIP, 1/20W 1K OHM J
R676	76011473	CHIP, 1/20W 47K OHM J
R677	76011473	CHIP, 1/20W 47K OHM J
R684	76871229	CHIP, 1/8W 2.2 OHM J
R685	76871229	CHIP, 1/8W 2.2 OHM J
R687	76871102	CHIP, 1/8W 1K OHM J
R688	76871102	CHIP, 1/8W 1K OHM J
R689	76871102	CHIP, 1/8W 1K OHM J
R695	76871102	CHIP, 1/8W 1K OHM J
R696	76871102	CHIP, 1/8W 1K OHM J
R697	76000576	CHIP JUMPER, 3216TYPE
R698	76871102	CHIP, 1/8W 1K OHM J
⚠ R801	76017004	METAL GLAZE 1/2W 510K J
⚠ R809	76004718	METAL GLAZE, 1/2W 8.2M OHM J
R812	76011473	CHIP, 1/20W 47K OHM J
R820	76019461	METAL PLATE, 2W 0.15 OHM J
R821	76019461	METAL PLATE, 2W 0.15 OHM J
R826	76004714	METAL GLAZE, 1/2W 1.2M OHM J
⚠ R830	76007061	CERAMIC COVERED, 2W 1.8 OHM K
R831	76120003	CERAMIC COVERED G 5W 4.7 J
R840	76382823	0XIDE FILM 1W 82K J
R841	76322339	METAL FILM 1W 3R3 J
R842	76310479	OXIDE METAL FILM, 1/2W 4.7 OHM J
R860	76552271	OXIDE METAL FILM, 1/2W 270 OHM J
R862	76552681	OXIDE METAL FILM, 1/2W 680 OHM J
R863	76011272	CHIP, 1/20W 2.7K OHM J
R864	76552101	OXIDE METAL FILM, 1/2W 100 OHM J
R865	76552100	OXIDE METAL FILM, 1/2W 10 OHM J
R867	76552330	OXIDE METAL FILM, 1/2W 33 OHM J
R880	76553683	OXIDE METAL FILM, 1W 68K OHM J
R881	76553683	OXIDE METAL FILM, 1W 68K OHM J
R882	76323569	METAL FILM 2W 5R6 J
R883	76079010	METAL RES 2W R47 J
R884	76321339	OXIDE METAL FILM, 1/2W 3.3 OHM J
R885	76553101	OXIDE METAL FILM, 1W 100 OHM J
R886	76554432	OXIDE FILM 2W 4.3K J
R4100	76011102	CHIP, 1/20W 1K OHM J
R4101	76011681	CHIP, 1/20W 680 OHM J
R4102	76011471	CHIP, 1/20W 470 OHM J
R4103	76011102	CHIP, 1/20W 1K OHM J
R4104	76011152	CHIP, 1/20W 1.5K OHM J
R4105	76011102	CHIP, 1/20W 1K OHM J
R4106	76011681	CHIP, 1/20W 680 OHM J
R4107	76011471	CHIP, 1/20W 470 OHM J
R4108	76011102	CHIP, 1/20W 1K OHM J
R4109	76011152	CHIP, 1/20W 1.5K OHM J
R4120	76000445	CHIP JUMPER, 1608TYPE
R4122	76000445	CHIP JUMPER, 1608TYPE
R6603	76011223	CHIP, 1/20W 22K OHM J
R6605	76011103	CHIP, 1/20W 10K OHM J
R6606	76011104	CHIP, 1/20W 100K OHM J
R6607	76011102	CHIP, 1/20W 1K OHM J
R8110	76000250	METAL FILM, 1/4W 56K OHM F
R8111	76000250	METAL FILM, 1/4W 56K OHM F
R8112	76000250	METAL FILM, 1/4W 56K OHM F
R8113	76000250	METAL FILM, 1/4W 56K OHM F
R8114	76000527	METAL FILM, 1/4W 5.6K OHM F
R8115	76000639	METAL FILM, 1/4W 22K OHM F
R8116	76000554	CHIP 1/16W 510 F
R8117	76000574	METAL FILM CHIP 1/16W 2.7K F
R8118	76000574	METAL FILM CHIP 1/16W 2.7K F
R8130	76871182	CHIP, 1/8W 1.8K OHM J
R8131	76871182	CHIP, 1/8W 1.8K OHM J
R8132	76871182	CHIP, 1/8W 1.8K OHM J
R8133	76011102	CHIP, 1/20W 1K OHM J
R8140	76011682	CHIP, 1/20W 6.8K OHM J
R8141	76011473	CHIP, 1/20W 47K OHM J
R8142	76872470	CHIP, 1/16W 47 OHM J
R8143	76872470	CHIP, 1/16W 47 OHM J
R8144	76872390	CHIP, 1/16W 39 OHM J
R8150	76011562	CHIP, 1/20W 5.6K OHM J
R8151	76011222	CHIP, 1/20W 2.2K OHM J
R8152	76011473	CHIP, 1/20W 47K OHM J
R8160	76011103	CHIP, 1/20W 10K OHM J

Location No.	Parts No.	Description
R8161	76011473	CHIP, 1/20W 47K OHM J
R8162	76011103	CHIP, 1/20W 10K OHM J
R8191	76000445	CHIP JUMPER, 1608TYPE
R8192	76011471	CHIP, 1/20W 470 OHM J
R8193	76011102	CHIP, 1/20W 1K OHM J
R8194	76011151	CHIP, 1/20W 150 OHM J
R8195	76011151	CHIP, 1/20W 150 OHM J
R8210	76998471	CHIP, 1/16W 470 OHM
R8212	76998102	CHIP, 1/16W 1K OHM
R8213	76011222	CHIP, 1/20W 2.2K OHM J
R8214	76000445	CHIP JUMPER, 1608TYPE
R8215	76998222	CHIP, 1/16W 2.2K OHM
R8216	76998222	CHIP, 1/16W 2.2K OHM
R8217	76011229	CHIP, 1/16W 2.2 OHM J
R8218	76998152	CHIP, 1/16W 1.5K OHM D
R8230	76872332	CHIP, 1/16W 3.3K OHM J
R8231	76011223	CHIP, 1/20W 22K OHM J
R8232	76011472	CHIP, 1/20W 4.7K OHM J
R8233	76011473	CHIP, 1/20W 47K OHM J
R8240	76190015	CHIP RES 1/16W 473D
R8241	76190015	CHIP RES 1/16W 473D
R8242	76190015	CHIP RES 1/16W 473D
R8243	76190015	CHIP RES 1/16W 473D
R8244	76190015	CHIP RES 1/16W 473D
R8245	76190015	CHIP RES 1/16W 473D
R8246	76190015	CHIP RES 1/16W 473D
R8247	76190015	CHIP RES 1/16W 473D
R8248	76190015	CHIP RES 1/16W 473D
R8249	76000445	CHIP JUMPER, 1608TYPE
R8310	76011223	CHIP, 1/20W 22K OHM J
R8312	76011471	CHIP, 1/20W 470 OHM J
R8313	76011102	CHIP, 1/20W 1K OHM J
R8390	76011473	CHIP, 1/20W 47K OHM J
R8391	76011102	CHIP, 1/20W 1K OHM J
R8392	76011681	CHIP, 1/20W 680 OHM J
R8393	76011681	CHIP, 1/20W 680 OHM J
R8394	76011681	CHIP, 1/20W 680 OHM J
R8395	76011681	CHIP, 1/20W 680 OHM J
R8396	76011222	CHIP, 1/20W 2.2K OHM J
R8403	76011102	CHIP, 1/20W 1K OHM J
R8404	76011101	CHIP, 1/20W 100 OHM J
R8405	76011102	CHIP, 1/20W 1K OHM J
R8406	76011473	CHIP, 1/20W 47K OHM J
R8407	76000572	CHIP 1/16W 3.3K F
R8408	76000422	CHIP 1/16W 2.2K F
R8409	76011102	CHIP, 1/20W 1K OHM J
R8410	76000445	CHIP JUMPER, 1608TYPE
R8411	76321479	OXIDE METAL FILM, 1/2W 4.7 OHM J
R8412	76871822	CHIP, 1/8W 8.2K OHM J
R8601	76000247	METAL FILM, 1/4W 39K OHM F
R8602	76366472	CARBON FILM, 1/6W 4.7K OHM J
R8603	76011103	CHIP, 1/20W 10K OHM J
R8604	76011102	CHIP, 1/20W 1K OHM J
R8605	76011472	CHIP, 1/20W 4.7K OHM J
R8606	76011103	CHIP, 1/20W 10K OHM J
R8607	76872221	CHIP, 1/16W 220 OHM J
R8701	76000595	CHIP 1/16W 15K F
R8702	76190012	METAL FILM CHIP 1/16W 1.5K F
R8703	76011221	CHIP, 1/20W 220 OHM J
R8704	76000445	CHIP JUMPER, 1608TYPE
R8705	76011220	CHIP, 1/20W 22 OHM J
R8706	76011103	CHIP, 1/20W 10K OHM J
R8707	76011103	CHIP, 1/20W 10K OHM J
R8709	76011101	CHIP, 1/20W 100 OHM J
R8710	76011101	CHIP, 1/20W 100 OHM J
R8711	76011223	CHIP, 1/20W 22K OHM J
R8712	76011473	CHIP, 1/20W 47K OHM J
R8713	76011103	CHIP, 1/20W 10K OHM J
R8714	76011102	CHIP, 1/20W 1K OHM J
R8715	76011102	CHIP, 1/20W 1K OHM J
R8716	76011103	CHIP, 1/20W 10K OHM J
R8801	76011102	CHIP, 1/20W 1K OHM J
R8802	76011102	CHIP, 1/20W 1K OHM J
R8803	76366221	CARBON FILM, 1/6W 220 OHM J
R8804	76871222	CHIP, 1/8W 2.2K OHM J
R8805	76011102	CHIP, 1/20W 1K OHM J

Location No.	Parts No.	Description
R8806	76011102	CHIP, 1/20W 1K OHM J
R8807	76011152	CHIP, 1/20W 1.5K OHM J
R8808	76011101	CHIP, 1/20W 100 OHM J
R8809	76011223	CHIP, 1/20W 22K OHM J
R8810	76000605	CHIP, 1/16W 6.8K OHM F
R8811	76190012	METAL FILM CHIP 1/16W 1.5K F
R8812	76000446	CHIP 1/16W 220 F
R8813	76000824	CHIP JUMPER, 2125TYPE
R8814	76011103	CHIP, 1/20W 10K OHM J
R8815	76872151	CHIP, 1/16W 150 OHM J
RA71	76011683	CHIP, 1/20W 68K OHM J
RA72	76011223	CHIP, 1/20W 22K OHM J
RA73	76011103	CHIP, 1/20W 10K OHM J
RA74	76000445	CHIP JUMPER, 1608TYPE
RA77	76011103	CHIP, 1/20W 10K OHM J
RA78	76000445	CHIP JUMPER, 1608TYPE
RA79	76000445	CHIP JUMPER, 1608TYPE
RB08	76011470	CHIP, 1/20W 47 OHM J
RB09	76011470	CHIP, 1/20W 47 OHM J
RB10	76011331	CHIP, 1/20W 330 OHM J
RB15	76011471	CHIP, 1/20W 470 OHM J
RB24	76000445	CHIP JUMPER, 1608TYPE
RC01	76011681	CHIP, 1/20W 680 OHM J
RC02	76011681	CHIP, 1/20W 680 OHM J
RC03	76011681	CHIP, 1/20W 680 OHM J
RC04	76011681	CHIP, 1/20W 680 OHM J
RC05	76011681	CHIP, 1/20W 680 OHM J
RC06	76011681	CHIP, 1/20W 680 OHM J
RC11	76011821	CHIP, 1/20W 820 OHM J
RC12	76011821	CHIP, 1/20W 820 OHM J
RC13	76011681	CHIP, 1/20W 680 OHM J
RC14	76011101	CHIP, 1/20W 100 OHM J
RC16	76011681	CHIP, 1/20W 680 OHM J
RC40	76011101	CHIP, 1/20W 100 OHM J
RC41	76011101	CHIP, 1/20W 100 OHM J
RC51	76011101	CHIP, 1/20W 100 OHM J
RC52	76011101	CHIP, 1/20W 100 OHM J
RC53	76011101	CHIP, 1/20W 100 OHM J
RE01	76366153	CARBON FILM, 1/6W 15K OHM J
RE02	76366473	CARBON FILM, 1/6W 47K OHM J
RE03	76366153	CARBON FILM, 1/6W 15K OHM J
RE06	76366473	CARBON FILM, 1/6W 47K OHM J
RE10	76367180	CARBON FILM, 1/6W 18 OHM G
RE11	76367222	CARBON FILM, 1/6W 2.2K OHM G
RE12	76366472	CARBON FILM, 1/6W 4.7K OHM J
RE13	76366102	CARBON FILM, 1/6W 1K OHM J
RE18	76366153	CARBON FILM, 1/6W 15K OHM J
RE19	76366473	CARBON FILM, 1/6W 47K OHM J
RE60	76000142	METAL FILM, 1/4W 240 OHM F
RE61	76000360	METAL FILM, 1/4W 1.2K OHM F
RE63	76366102	CARBON FILM, 1/6W 1K OHM J
RE65	76367620	CARBON FILM 1/6W 62 G
RE66	76367222	CARBON FILM, 1/6W 2.2K OHM G
RE90	76000155	METAL FILM, 1/4W 15 OHM F
RE91	76000358	METAL FILM, 1/4W 1K OHM F
RE92	76366101	CARBON FILM, 1/6W 100 OHM J
RE93	76366102	CARBON FILM, 1/6W 1K OHM J
RE94	76553101	OXIDE METAL FILM, 1W 100 OHM J
RE95	76552102	OXIDE METAL FILM, 1/2W 1K OHM J
RE96	76366473	CARBON FILM, 1/6W 47K OHM J
RE97	76366472	CARBON FILM, 1/6W 4.7K OHM J
RE98	76366473	CARBON FILM, 1/6W 47K OHM J
RE99	76366101	CARBON FILM, 1/6W 100 OHM J
RR01	76871750	CHIP, 1/8W 75 OHM J
RR02	76871750	CHIP, 1/8W 75 OHM J
RR03	76871750	CHIP, 1/8W 75 OHM J
RR04	76011330	CHIP, 1/20W 33 OHM J
RR05	76011330	CHIP, 1/20W 33 OHM J
RR06	76011330	CHIP, 1/20W 33 OHM J
RR10	76011101	CHIP, 1/20W 100 OHM J
RR11	76011101	CHIP, 1/20W 100 OHM J
RR13	76011101	CHIP, 1/20W 100 OHM J
RR14	76011101	CHIP, 1/20W 100 OHM J
RR15	76011332	CHIP, 1/20W 3.3K OHM J
RR16	76011102	CHIP, 1/20W 1K OHM J
RS01	76011222	CHIP, 1/20W 2.2K OHM J

Location No.	Parts No.	Description
RS03	76011101	CHIP, 1/20W 100 OHM J
RS04	76011101	CHIP, 1/20W 100 OHM J
RS05	76011101	CHIP, 1/20W 100 OHM J
RS06	76011101	CHIP, 1/20W 100 OHM J
RS07	76011104	CHIP, 1/20W 100K OHM J
RS08	76011104	CHIP, 1/20W 100K OHM J
RS09	76011104	CHIP, 1/20W 100K OHM J
RS10	76011104	CHIP, 1/20W 100K OHM J
RS11	76011223	CHIP, 1/20W 22K OHM J
RS12	76011104	CHIP, 1/20W 100K OHM J
RS13	76011104	CHIP, 1/20W 100K OHM J
RS16	76011473	CHIP, 1/20W 47K OHM J
RS17	76011473	CHIP, 1/20W 47K OHM J
RS18	76011103	CHIP, 1/20W 10K OHM J
RS19	76011104	CHIP, 1/20W 100K OHM J
RS20	76011104	CHIP, 1/20W 100K OHM J
RS21	76011473	CHIP, 1/20W 47K OHM J
RS22	76011473	CHIP, 1/20W 47K OHM J
RS23	76011223	CHIP, 1/20W 22K OHM J
RS24	76011223	CHIP, 1/20W 22K OHM J
RS25	76011223	CHIP, 1/20W 22K OHM J
RS26	76011223	CHIP, 1/20W 22K OHM J
RS27	76011222	CHIP, 1/20W 2.2K OHM J
RS28	76011222	CHIP, 1/20W 2.2K OHM J
RS29	76011102	CHIP, 1/20W 1K OHM J
RS30	76011102	CHIP, 1/20W 1K OHM J
RS31	76011104	CHIP, 1/20W 100K OHM J
RS32	76011104	CHIP, 1/20W 100K OHM J
RS33	76011473	CHIP, 1/20W 47K OHM J
RS34	76011473	CHIP, 1/20W 47K OHM J
RS35	76011104	CHIP, 1/20W 100K OHM J
RS36	76011101	CHIP, 1/20W 100 OHM J
RS37	76011223	CHIP, 1/20W 22K OHM J
RS38	76011223	CHIP, 1/20W 22K OHM J
RS39	76011101	CHIP, 1/20W 100 OHM J
RS40	76011472	CHIP, 1/20W 4.7K OHM J
RS41	76011472	CHIP, 1/20W 4.7K OHM J
RS42	76011472	CHIP, 1/20W 4.7K OHM J
RS43	76011472	CHIP, 1/20W 4.7K OHM J
RS44	76011472	CHIP, 1/20W 4.7K OHM J
RS45	76011472	CHIP, 1/20W 4.7K OHM J
RS46	76011472	CHIP, 1/20W 4.7K OHM J
RS47	76011472	CHIP, 1/20W 4.7K OHM J
RS48	76011472	CHIP, 1/20W 4.7K OHM J
RS49	76011472	CHIP, 1/20W 4.7K OHM J
RS50	76011472	CHIP, 1/20W 4.7K OHM J
RS51	76011472	CHIP, 1/20W 4.7K OHM J
RS52	76011472	CHIP, 1/20W 4.7K OHM J
RS53	76011472	CHIP, 1/20W 4.7K OHM J
RS54	76011472	CHIP, 1/20W 4.7K OHM J
RS55	76011472	CHIP, 1/20W 4.7K OHM J
RS56	76011472	CHIP, 1/20W 4.7K OHM J
RS57	76011104	CHIP, 1/20W 100K OHM J
RS58	76011101	CHIP, 1/20W 100 OHM J
RS59	76011101	CHIP, 1/20W 100 OHM J
RS60	76011101	CHIP, 1/20W 100 OHM J
RS61	76011101	CHIP, 1/20W 100 OHM J
RS62	76011472	CHIP, 1/20W 4.7K OHM J
RS63	76011473	CHIP, 1/20W 47K OHM J
RS64	76011682	CHIP, 1/20W 6.8K OHM J
RS65	76011182	CHIP, 1/20W 1.8K OHM J
RS66	76011100	CHIP, 1/20W 10 OHM J
RS67	76011101	CHIP, 1/20W 100 OHM J
RS68	76011101	CHIP, 1/20W 100 OHM J
RS69	76011222	CHIP, 1/20W 2.2K OHM J
RS70	76011222	CHIP, 1/20W 2.2K OHM J
RS71	76011102	CHIP, 1/20W 1K OHM J
RS72	76011102	CHIP, 1/20W 1K OHM J
RS73	76011391	CHIP, 1/20W 390 OHM J
RS74	76011104	CHIP, 1/20W 100K OHM J
RS76	76011101	CHIP, 1/20W 100 OHM J
RS77	76011472	CHIP, 1/20W 4.7K OHM J
RS78	76011102	CHIP, 1/20W 1K OHM J
RS79	76011101	CHIP, 1/20W 100 OHM J
RS80	76011472	CHIP, 1/20W 4.7K OHM J
RS81	76011102	CHIP, 1/20W 1K OHM J

Location No.	Parts No.	Description
RS85	76011472	CHIP, 1/20W 4.7K OHM J
RS86	76011472	CHIP, 1/20W 4.7K OHM J
RS87	76011101	CHIP, 1/20W 100 OHM J
RS88	76011101	CHIP, 1/20W 100 OHM J
RS89	76011104	CHIP, 1/20W 100K OHM J
RS90	76011391	CHIP, 1/20W 390 OHM J
RS91	76011473	CHIP, 1/20W 47K OHM J
RS96	76011223	CHIP, 1/20W 22K OHM J
RS97	76011223	CHIP, 1/20W 22K OHM J
RS529	76011223	CHIP, 1/20W 22K OHM J
RS530	76011103	CHIP, 1/20W 10K OHM J
RT01	76011101	CHIP, 1/20W 100 OHM J
RT02	76011273	CHIP, 1/20W 27K OHM J
RT03	76011683	CHIP, 1/20W 68K OHM J
RT04	76011102	CHIP, 1/20W 1K OHM J
RT05	76011101	CHIP, 1/20W 100 OHM J
RT06	76011391	CHIP, 1/20W 390 OHM J
RT07	76011821	CHIP, 1/20W 820 OHM J
RT08	76011151	CHIP, 1/20W 150 OHM J
RT09	76011471	CHIP, 1/20W 470 OHM J
RT10	76011101	CHIP, 1/20W 100 OHM J
RT11	76011471	CHIP, 1/20W 470 OHM J
RT12	76011102	CHIP, 1/20W 1K OHM J
RV01	76011101	CHIP, 1/20W 100 OHM J
RV02	76011101	CHIP, 1/20W 100 OHM J
RV03	76011101	CHIP, 1/20W 100 OHM J
RV04	76011101	CHIP, 1/20W 100 OHM J
RV05	76011101	CHIP, 1/20W 100 OHM J
RV06	76011101	CHIP, 1/20W 100 OHM J
RV07	76011101	CHIP, 1/20W 100 OHM J
RV08	76011101	CHIP, 1/20W 100 OHM J
RV09	76011562	CHIP, 1/20W 5.6K OHM J
RV10	76011101	CHIP, 1/20W 100 OHM J
RV11	76011101	CHIP, 1/20W 100 OHM J
RV12	76011101	CHIP, 1/20W 100 OHM J
RV13	76011101	CHIP, 1/20W 100 OHM J
RV14	76011101	CHIP, 1/20W 100 OHM J
RV15	76011101	CHIP, 1/20W 100 OHM J
RV16	76011101	CHIP, 1/20W 100 OHM J
RV17	76011101	CHIP, 1/20W 100 OHM J
RV18	76011101	CHIP, 1/20W 100 OHM J
RV19	76011101	CHIP, 1/20W 100 OHM J
RV20	76011101	CHIP, 1/20W 100 OHM J
RV21	76011101	CHIP, 1/20W 100 OHM J
RV22	76011101	CHIP, 1/20W 100 OHM J
RV26	76011101	CHIP, 1/20W 100 OHM J
RV27	76011101	CHIP, 1/20W 100 OHM J
RV28	76011103	CHIP, 1/20W 10K OHM J
RV29	76011103	CHIP, 1/20W 10K OHM J
RV30	76019388	CHIP, 1/16W 10K OHM F
RV31	76019388	CHIP, 1/16W 10K OHM F
RV32	76019388	CHIP, 1/16W 10K OHM F
RV33	76989227	CHIP, 1/16W 5,1K OHM F
RV34	76989227	CHIP, 1/16W 5,1K OHM F
RV35	76989227	CHIP, 1/16W 5,1K OHM F
RV36	76019349	CHIP, 1/16W 1K OHM F
RV37	76019349	CHIP, 1/16W 1K OHM F
RV38	76019349	CHIP, 1/16W 1K OHM F
RV39	76011470	CHIP, 1/20W 47 OHM J
RV40	76011101	CHIP, 1/20W 100 OHM J
RV41	76011101	CHIP, 1/20W 100 OHM J
RV43	76011101	CHIP, 1/20W 100 OHM J
RV44	76011101	CHIP, 1/20W 100 OHM J
RV45	76871681	CHIP, 1/8W 680 OHM J
RV46	76871331	CHIP, 1/8W 330 OHM J
RV47	76011121	CHIP, 1/20W 120 OHM J
RV48	76011121	CHIP, 1/20W 120 OHM J
RV49	76871331	CHIP, 1/8W 330 OHM J
RV50	76011101	CHIP, 1/20W 100 OHM J
RV51	76011101	CHIP, 1/20W 100 OHM J
RV53	76011101	CHIP, 1/20W 100 OHM J
RV54	76011222	CHIP, 1/20W 2.2K OHM J
RV55	76011121	CHIP, 1/20W 120 OHM J
RV56	76011101	CHIP, 1/20W 100 OHM J
RV57	76011101	CHIP, 1/20W 100 OHM J
RV58	76871271	CHIP, 1/8W 270 OHM J

Location No.	Parts No.	Description
RV59	76871271	CHIP, 1/8W 270 OHM J
RV61	76011104	CHIP, 1/20W 100K OHM J
RV64	76011470	CHIP, 1/20W 47 OHM J
RV65	76011470	CHIP, 1/20W 47 OHM J
RV80	76872750	CHIP, 1/16W 75 OHM J
RV81	76872750	CHIP, 1/16W 75 OHM J
RV82	76872750	CHIP, 1/16W 75 OHM J
RV121	76872750	CHIP, 1/16W 75 OHM J
RV122	76872750	CHIP, 1/16W 75 OHM J
RV123	76872750	CHIP, 1/16W 75 OHM J
RV129	76011101	CHIP, 1/20W 100 OHM J
RV212	76872750	CHIP, 1/16W 75 OHM J
RV213	76872750	CHIP, 1/16W 75 OHM J
RV214	76872750	CHIP, 1/16W 75 OHM J
RV215	76872750	CHIP, 1/16W 75 OHM J
RV216	76872472	CHIP, 1/16W 4.7K OHM J
RV218	76872750	CHIP, 1/16W 75 OHM J
RV219	76872750	CHIP, 1/16W 75 OHM J
RV220	76872750	CHIP, 1/16W 75 OHM J
RV229	76872750	CHIP, 1/16W 75 OHM J
RV231	76011100	CHIP, 1/20W 10 OHM J
RV232	76011100	CHIP, 1/20W 10 OHM J
RV233	76011100	CHIP, 1/20W 10 OHM J
RV235	76872750	CHIP, 1/16W 75 OHM J
RV236	76872750	CHIP, 1/16W 75 OHM J
RV237	76872750	CHIP, 1/16W 75 OHM J
RV238	76872472	CHIP, 1/16W 4.7K OHM J
RV240	76872750	CHIP, 1/16W 75 OHM J
RV241	76872750	CHIP, 1/16W 75 OHM J
RV250	76872750	CHIP, 1/16W 75 OHM J
RV251	76872750	CHIP, 1/16W 75 OHM J
RY01	76011101	CHIP, 1/20W 100 OHM J
RY02	76011101	CHIP, 1/20W 100 OHM J
RY03	76011101	CHIP, 1/20W 100 OHM J
RY04	76871271	CHIP, 1/8W 270 OHM J
RY05	76871271	CHIP, 1/8W 270 OHM J
RY06	76871271	CHIP, 1/8W 270 OHM J
RY07	76011470	CHIP, 1/20W 47 OHM J
RY08	76011470	CHIP, 1/20W 47 OHM J
RY09	76011470	CHIP, 1/20W 47 OHM J
GC01	76000445	CHIP JUMPER, 1608TYPE
GC02	76000445	CHIP JUMPER, 1608TYPE
GC03	76000445	CHIP JUMPER, 1608TYPE
GC04	76000445	CHIP JUMPER, 1608TYPE
GC06	76000445	CHIP JUMPER, 1608TYPE
GJ413	76000445	CHIP JUMPER, 1608TYPE
GJ414	76000445	CHIP JUMPER, 1608TYPE
GJ603	76000445	CHIP JUMPER, 1608TYPE
GR02	76000445	CHIP JUMPER, 1608TYPE
GR03	76000445	CHIP JUMPER, 1608TYPE
GR25	76000445	CHIP JUMPER, 1608TYPE
GR26	76000445	CHIP JUMPER, 1608TYPE
GR27	76000445	CHIP JUMPER, 1608TYPE
GR28	76000445	CHIP JUMPER, 1608TYPE
GR101	76000445	CHIP JUMPER, 1608TYPE
GR102	76000445	CHIP JUMPER, 1608TYPE
GR103	76000445	CHIP JUMPER, 1608TYPE
GR501	76000445	CHIP JUMPER, 1608TYPE
GR605	76000445	CHIP JUMPER, 1608TYPE
GR610	76000445	CHIP JUMPER, 1608TYPE
GR611	76000445	CHIP JUMPER, 1608TYPE
GRR04	76000445	CHIP JUMPER, 1608TYPE
GRR05	76000445	CHIP JUMPER, 1608TYPE
GRR14	76000445	CHIP JUMPER, 1608TYPE
GRR15	76000445	CHIP JUMPER, 1608TYPE
GRR16	76000445	CHIP JUMPER, 1608TYPE
GRR44	76000445	CHIP JUMPER, 1608TYPE
GRV07	76000445	CHIP JUMPER, 1608TYPE
GRV08	76000445	CHIP JUMPER, 1608TYPE
GRV09	76000445	CHIP JUMPER, 1608TYPE
GRV10	76000445	CHIP JUMPER, 1608TYPE
GRV11	76000445	CHIP JUMPER, 1608TYPE
GRV12	76000445	CHIP JUMPER, 1608TYPE
GRV15	76000445	CHIP JUMPER, 1608TYPE
GRV16	76000445	CHIP JUMPER, 1608TYPE
GRV19	76000445	CHIP JUMPER, 1608TYPE

Location No.	Parts No.	Description
GRV33	76000445	CHIP JUMPER, 1608TYPE
GRV34	76000445	CHIP JUMPER, 1608TYPE
GRV35	76000445	CHIP JUMPER, 1608TYPE
GRV36	76000445	CHIP JUMPER, 1608TYPE
GRV37	76000445	CHIP JUMPER, 1608TYPE
GRV38	76000445	CHIP JUMPER, 1608TYPE
GRV39	76000445	CHIP JUMPER, 1608TYPE
GRV40	76000445	CHIP JUMPER, 1608TYPE
GRV41	76000445	CHIP JUMPER, 1608TYPE
GRV42	76000445	CHIP JUMPER, 1608TYPE
GRV43	76000445	CHIP JUMPER, 1608TYPE
GRV44	76000445	CHIP JUMPER, 1608TYPE
GRV51	76000445	CHIP JUMPER, 1608TYPE
GRV52	76000445	CHIP JUMPER, 1608TYPE
GRV53	76000445	CHIP JUMPER, 1608TYPE
GRY01	76000445	CHIP JUMPER, 1608TYPE
GRY02	76000445	CHIP JUMPER, 1608TYPE
GRY03	76000445	CHIP JUMPER, 1608TYPE
GRY04	76000445	CHIP JUMPER, 1608TYPE
GRY05	76000445	CHIP JUMPER, 1608TYPE
GRY06	76000445	CHIP JUMPER, 1608TYPE
GT01	76000445	CHIP JUMPER, 1608TYPE
GT02	76000445	CHIP JUMPER, 1608TYPE
COILS & TRANSFORMERS		
L101	23248398	COIL, CHOKE, TLN3278D
L102	23103828	INDUCTOR, BEAD, TEM2121M
L103	23103828	INDUCTOR, BEAD, TEM2121M
L104	23103828	INDUCTOR, BEAD, TEM2121M
L105	23277002	FERRITE CORE, ACM3225-102-2PT100
L190	23103828	INDUCTOR, BEAD, TEM2121M
L505	23289022	COIL, PEAKING, TRF4100AT
L820	23248491	COIL, CHOKE 26X13 108MMH 5A TLN3641AF
L821	23248491	COIL, CHOKE 26X13 108MMH 5A TLN3641AF
L824	23103330	FILTER, FERRITE CHOKE 3.5X5X2 TEM2014AH
L825	23103304	FERRITE CHOKE, TEM2011AA
L840	23289981	COIL, PEAKING, TRF4330AZ
L860	23103320	COIL, CHOKE, TEM2011
L862	23103320	COIL, CHOKE, TEM2011
L870	23103320	COIL, CHOKE, TEM2011
L871	23103320	COIL, CHOKE, TEM2011
L878	23248489	COIL, CHOKE COIL 1.5MMH 8A TLN3639AH
L880	23103304	FERRITE CHOKE, TEM2011AA
L881	23248388	COIL, CHOKE 9X11H 4.7MMHK 4.0A TLN3515AA
L883	23103304	FERRITE CHOKE, TEM2011AA
L884	23248387	COIL, CHOKE 9X11H 22MMHK 2.5A TLN3499AA
L886	23103304	FERRITE CHOKE, TEM2011AA
L8211	23103330	FILTER, FERRITE CHOKE 3.5X5X2 TEM2014AH
L8212	23103330	FILTER, FERRITE CHOKE 3.5X5X2 TEM2014AH
LC01	23103828	INDUCTOR, BEAD, TEM2121M
LC02	23103828	INDUCTOR, BEAD, TEM2121M
LC03	23103828	INDUCTOR, BEAD, TEM2121M
LC04	23103828	INDUCTOR, BEAD, TEM2121M
LC05	23103828	INDUCTOR, BEAD, TEM2121M
LC13	23103828	INDUCTOR, BEAD, TEM2121M
LC21	23103828	INDUCTOR, BEAD, TEM2121M
LC22	23103828	INDUCTOR, BEAD, TEM2121M
LC23	23103828	INDUCTOR, BEAD, TEM2121M
LC24	23103828	INDUCTOR, BEAD, TEM2121M
LC25	23103828	INDUCTOR, BEAD, TEM2121M
LC26	23103828	INDUCTOR, BEAD, TEM2121M
LC27	23103828	INDUCTOR, BEAD, TEM2121M
LC28	23103828	INDUCTOR, BEAD, TEM2121M
LC29	23103828	INDUCTOR, BEAD, TEM2121M
LC30	23103828	INDUCTOR, BEAD, TEM2121M
LC31	23103238	INDUCTOR, BEAD, TEM2142AD
LC32	23103238	INDUCTOR, BEAD, TEM2142AD
LC33	23103238	INDUCTOR, BEAD, TEM2142AD
LE10	23289980	COIL, PEAKING, TRF4220AZ
LE60	23248456	COIL, CHOKE, TLN3540AH
LE61	23289980	COIL, PEAKING, TRF4220AZ
LE62	23248432	COIL, CHOKE, TLN3499AH
LE90	23248456	COIL, CHOKE, TLN3540AH
LE91	23289980	COIL, PEAKING, TRF4220AZ
LE92	23248432	COIL, CHOKE, TLN3499AH
LT01	23289028	COIL, PEAKING, TRF4101AT

Location No.	Parts No.	Description
LV01	23277002	FERRITE CORE, ACM3225-102-2PT100
LV02	23277002	FERRITE CORE, ACM3225-102-2PT100
LV03	23277002	FERRITE CORE, ACM3225-102-2PT100
LV15	23289022	COIL, PEAKING, TRF4100AT
⚠ T801	23211904	COIL, LINE FILTER 35X34H 10MH TRF3255AF
⚠ T802	23211904	COIL, LINE FILTER 35X34H 10MH TRF3255AF
⚠ T820	23217799	TRANSFORMER, CONVERTER TPW3564AS
⚠ T822	23248490	COIL, CHOKE EI25 5.3MMH 8.0A TLN3640AH
⚠ T840	23217800	TRANSFORMER, CONVERTER TPW3565AS
⚠ T860	23217802	TRANSFORMER, CONVERTER TPW3567AS
⚠ T880	23217801	TRANSFORMER, CONVERTER TPW3566AS
ZA01	23103840	FERRITE CORE, TFE1013
ZA02	23103778	FERRITE CORE, TFE1008
SEMICONDUCTORS		
IC414	23085938	IC, BU4242G-TR
Q101	23205506	TRANSISTOR, 2SC4081 Q
Q501	23085049	IC, TB1274BFG(DRY)
Q504	23205507	TRANSISTOR, 2SA1576A Q
Q610	23085039	IC, TA8246AHQ
Q612	23205443	TRANSISTOR, 2SA1162-Y(F)
Q615	23205325	TRANSISTOR, RN2404(F)
Q620	23205506	TRANSISTOR, 2SC4081 Q
Q621	23205506	TRANSISTOR, 2SC4081 Q
Q622	23205506	TRANSISTOR, 2SC4081 Q
Q627	23205325	TRANSISTOR, RN2404(F)
Q664	23205506	TRANSISTOR, 2SC4081 Q
Q665	23205325	TRANSISTOR, RN2404(F)
Q671	23205302	TRANSISTOR, 2SC3326-B(F)
Q672	23205302	TRANSISTOR, 2SC3326-B(F)
Q812	23205506	TRANSISTOR, 2SC4081 Q
⚠ Q813	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q814	23205506	TRANSISTOR, 2SC4081 Q
Q815	23205506	TRANSISTOR, 2SC4081 Q
Q816	23205506	TRANSISTOR, 2SC4081 Q
Q820	23135094	IC, PFC 7PIN SRX2039
⚠ Q821	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q822	23205339	TRANSISTOR, 2SC2655-Y(F)
Q840	23135083	IC, HYBRID VDSS=800V
⚠ Q841	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q842	23085389	IC, NJM431L
Q860	23135066	IC, STRZ4479
⚠ Q862	23000823	IC, PHOTO COUPLER, TLP421F(GR)
⚠ Q863	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q864	23205339	TRANSISTOR, 2SC2655-Y(F)
Q870	23085389	IC, NJM431L
Q880	23135072	IC, STRW6765
⚠ Q881	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q882	23085389	IC, NJM431L
Q4100	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
Q4101	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
Q4102	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
Q4103	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
Q8191	23205506	TRANSISTOR, 2SC4081 Q
Q8230	23205328	TRANSISTOR, RN1405(F)
Q8231	23205506	TRANSISTOR, 2SC4081 Q
Q8310	23205328	TRANSISTOR, RN1405(F)
Q8311	23205506	TRANSISTOR, 2SC4081 Q
Q8312	23205506	TRANSISTOR, 2SC4081 Q
Q8390	23205506	TRANSISTOR, 2SC4081 Q
⚠ Q8391	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q8601	23205329	TRANSISTOR, RN1404(F)
Q8602	23205506	TRANSISTOR, 2SC4081 Q
Q8701	23205506	TRANSISTOR, 2SC4081 Q
Q8702	23205329	TRANSISTOR, RN1404(F)
Q8703	23205328	TRANSISTOR, RN1405(F)
Q8704	23085338	IC, BD5245G-TR
Q8801	23205329	TRANSISTOR, RN1404(F)
Q8802	23205329	TRANSISTOR, RN1404(F)
QB04	23205463	TRANSISTOR, 2SC2712-Y(TE85L,F)
QB07	23205463	TRANSISTOR, 2SC2712-Y(TE85L,F)
QE01	23205376	TRANSISTOR, 2SC5343-YLK)
QE02	23205376	TRANSISTOR, 2SC5343-YLK)
QE03	23205315	TRANSISTOR, RN1206(F)
QE10	23135077	IC, SI-3090CA
QE11	23205315	TRANSISTOR, RN1206(F)

Location No.	Parts No.	Description
QE60	23085381	IC, SI-8050SS
QE65	23135076	IC, SI-3050C
QE90	23085381	IC, SI-8050SS
QE91	23205376	TRANSISTOR, 2SC5343-YLK)
QE92	23205376	TRANSISTOR, 2SC5343-YLK)
QE93	23205315	TRANSISTOR, RN1206(F)
QE95	23205442	TRANSISTOR, 2SC3852
QR03	23318981	IC, MC14053BF
QR20	23205507	TRANSISTOR, 2SA1576A Q
QS01	23009916	IC, MM1631AJBE
QS02	23009614	IC, CD4053BNSR
QS03	23205302	TRANSISTOR, 2SC3326-B(F)
QS04	23205302	TRANSISTOR, 2SC3326-B(F)
QS05	23205325	TRANSISTOR, RN2404(F)
QS06	23205302	TRANSISTOR, 2SC3326-B(F)
QS07	23205302	TRANSISTOR, 2SC3326-B(F)
QS08	23205506	TRANSISTOR, 2SC4081 Q
QS09	23205506	TRANSISTOR, 2SC4081 Q
QS10	23205302	TRANSISTOR, 2SC3326-B(F)
QS11	23205302	TRANSISTOR, 2SC3326-B(F)
QS14	23205302	TRANSISTOR, 2SC3326-B(F)
QS18	23205302	TRANSISTOR, 2SC3326-B(F)
QS19	23205506	TRANSISTOR, 2SC4081 Q
QS20	23205506	TRANSISTOR, 2SC4081 Q
QS21	23205506	TRANSISTOR, 2SC4081 Q
QS41	23205506	TRANSISTOR, 2SC4081 Q
QS43	23205506	TRANSISTOR, 2SC4081 Q
QS52	23205463	TRANSISTOR, 2SC2712-Y(TE85L,F)
QS108	23205506	TRANSISTOR, 2SC4081 Q
QT01	23205507	TRANSISTOR, 2SA1576A Q
QT02	23205506	TRANSISTOR, 2SC4081 Q
QT03	23205507	TRANSISTOR, 2SA1576A Q
QT04	23085392	IC, MM1501XN
QT05	23205507	TRANSISTOR, 2SA1576A Q
QT06	23205402	TRANSISTOR, DTC144EUA
QV01	23009940	IC, MM1630AQ
QV03	23205506	TRANSISTOR, 2SC4081 Q
QV04	23205506	TRANSISTOR, 2SC4081 Q
QV06	23205506	TRANSISTOR, 2SC4081 Q
QV07	23205506	TRANSISTOR, 2SC4081 Q
QV10	23009418	IC, MM1505XNRE
QV11	23009418	IC, MM1505XNRE
QV12	23009418	IC, MM1505XNRE
QY01	23205506	TRANSISTOR, 2SC4081 Q
QY02	23205506	TRANSISTOR, 2SC4081 Q
QY03	23205506	TRANSISTOR, 2SC4081 Q
D607	23357802	DIODE, ZENER, MA8330-M
D612	23362140	DIODE, KDS160-RTK
D613	23362140	DIODE, KDS160-RTK
D614	23362140	DIODE, KDS160-RTK
D617	23362140	DIODE, KDS160-RTK
D618	23362140	DIODE, KDS160-RTK
D619	23362140	DIODE, KDS160-RTK
D640	23362140	DIODE, KDS160-RTK
D641	23362140	DIODE, KDS160-RTK
D674	23362140	DIODE, KDS160-RTK
D675	23362140	DIODE, KDS160-RTK
D809	76000656	VARISTOR, TNR15G471K
D811	23357841	DIODE, ZENER, MTZJ6.8A
D815	23357692	DIODE, ZENER, RD2.0ESA B2
D816	23357738	DIODE, ZENER, MA8047-L
D819	23357718	THYRISTOR, SF0R3G42(N,G5H1)
D820	23357913	DIODE, RBV-1506, LF-A
D821	23362240	DIODE, VRM=1200V IF(AV)=3A FMC-26UAR
D822	23362220	DIODE, VRM=600V IF=5A FMX-G16S
D823	23362223	DIODE, VRM=600V IF=1.2A DO201AD :RM3A,LF014-102
D825	23357899	DIODE, ZENER, MTZJ33A
D826	23357513	DIODE, EU2A
D828	76000656	VARISTOR, TNR15G471K
D841	23362221	DIODE, VRM=1000V 1.0A EM1C,LF-F7
D842	23362221	DIODE, VRM=1000V 1.0A EM1C,LF-F7
D843	23357854	DIODE, ZENER, MTZJ10B
D844	23357837	DIODE, ZENER, MTZJ5.6B
D845	23357510	DIODE, AG01
D846	23357513	DIODE, EU2A
D860	23357850	DIODE, ZENER, MTZJ9.1A

Location No.	Parts No.	Description
D861	23357893	DIODE, ZENER, MTZJ27C
D862	23357893	DIODE, ZENER, MTZJ27C
D863	23357854	DIODE, ZENER, MTZJ10B
D864	23357854	DIODE, ZENER, MTZJ10B
D865	23357513	DIODE, EU2A
D866	23357853	DIODE, ZENER, MTZJ10A
D870	23362219	DIODE, VRM=100V IF=20A FME-220A(023-108)
D871	23362219	DIODE, VRM=100V IF=20A FME-220A(023-108)
D874	23362219	DIODE, VRM=100V IF=20A FME-220A(023-108)
D880	23357513	DIODE, EU2A
D881	23357104	DIODE, 1SS244
D882	23357104	DIODE, 1SS244
D883	23357837	DIODE, ZENER, MTZJ5.6B
D884	23362219	DIODE, VRM=100V IF=20A FME-220A(023-108)
D885	23357513	DIODE, EU2A
D886	23357408	DIODE, FMX-12S(023-108)
D887	23357900	DIODE, ZENER, MTZJ33B
D888	23357848	DIODE, ZENER, MTZJ8.2B
D889	23357848	DIODE, ZENER, MTZJ8.2B
D890	23357847	DIODE, ZENER, MTZJ8.2A
D891	23357847	DIODE, ZENER, MTZJ8.2A
D892	23357892	DIODE, ZENER, MTZJ27B
D8230	23357792	DIODE, ZENER 22.80-23.97 MA8240-L, TX
D8231	23357703	DIODE, 1SS355
D8232	23357745	DIODE, ZENER, MA8056-M
D8271	23357697	DIODE, 1SS133
D8272	23357910	DIODE, ZENER, MTZJ39D
D8273	23357883	DIODE, ZENER, MTZJ22A
D8274	23357883	DIODE, ZENER, MTZJ22A
D8310	23357703	DIODE, 1SS355
D8311	23357745	DIODE, ZENER, MA8056-M
D8312	23357703	DIODE, 1SS355
D8313	23357762	DIODE, ZENER, MA8091-M
D8390	23357889	DIODE, ZENER, MTZJ24C
D8391	23357890	DIODE, ZENER, MTZJ24D
D8401	23357703	DIODE, 1SS355
D8402	23357703	DIODE, 1SS355
D8403	23357703	DIODE, 1SS355
D8404	23357703	DIODE, 1SS355
D8601	23357703	DIODE, 1SS355
D8602	23357731	DIODE, ZENER, MA8033-H
D8701	23357703	DIODE, 1SS355
D8702	23357703	DIODE, 1SS355
D8705	23357894	DIODE, ZENER, MTZJ27D
D8706	23357703	DIODE, 1SS355
D8801	23357703	DIODE, 1SS355
D8802	23357703	DIODE, 1SS355
D8803	23357778	DIODE, ZENER, MA8150-M
D8804	23357703	DIODE, 1SS355
D8805	23357745	DIODE, ZENER, MA8056-M
DA01	23357751	DIODE, ZENER, MA8068-M
DA06	23357751	DIODE, ZENER, MA8068-M
DA07	23357751	DIODE, ZENER, MA8068-M
DB01	23358606	DIODE, LED RED, SLR-56VC3FPQ
DB02	23358605	DIODE, LED GREEN, SLR-56MC3FPQR
DB20	23357406	DIODE, ZENER, UDZS5.6B
DB22	23357703	DIODE, 1SS355
DB23	23357703	DIODE, 1SS355
DE01	23357706	DIODE, AK04
DE02	23357706	DIODE, AK04
DE03	23357823	DIODE, ZENER, MTZJ3.6A
DE07	23357821	DIODE, ZENER, MTZJ3.3A
DE60	23357810	DIODE, FMB-G14L
DE61	23357697	DIODE, 1SS133
DE62	23357845	DIODE, ZENER, MTZJ7.5B
DE90	23357810	DIODE, FMB-G14L
DE91	23357697	DIODE, 1SS133
DE92	23357912	DIODE, ZENER, MTZJ6.2C
DE97	23357895	DIODE, ZENER, MTZJ30A
DE99	23357840	DIODE, ZENER, MTZJ6.2B
DR70	23362140	DIODE, KDS160-RTK
DR71	23362140	DIODE, KDS160-RTK
DS13	23362140	DIODE, KDS160-RTK
DS16	23357744	DIODE, ZENER, MA8056-L
DV01	23357762	DIODE, ZENER, MA8091-M
DV02	23357762	DIODE, ZENER, MA8091-M

Location No.	Parts No.	Description
DV03	23357762	DIODE, ZENER, MA8091-M
DV04	23357762	DIODE, ZENER, MA8091-M
DV05	23357762	DIODE, ZENER, MA8091-M
DV06	23357762	DIODE, ZENER, MA8091-M
DV07	23357762	DIODE, ZENER, MA8091-M
DV08	23357762	DIODE, ZENER, MA8091-M
DV09	23357762	DIODE, ZENER, MA8091-M
DV10	23357762	DIODE, ZENER, MA8091-M
DV11	23357762	DIODE, ZENER, MA8091-M
DV12	23357762	DIODE, ZENER, MA8091-M
DV13	23357762	DIODE, ZENER, MA8091-M
DV14	23357762	DIODE, ZENER, MA8091-M
DV15	23357762	DIODE, ZENER, MA8091-M
DV16	23357762	DIODE, ZENER, MA8091-M
DV17	23357762	DIODE, ZENER, MA8091-M
DV18	23357762	DIODE, ZENER, MA8091-M
DV19	23357762	DIODE, ZENER, MA8091-M
DV20	23357762	DIODE, ZENER, MA8091-M
DV21	23357762	DIODE, ZENER, MA8091-M
DV24	23357762	DIODE, ZENER, MA8091-M
DV30	23362140	DIODE, KDS160-RTK
DV31	23362140	DIODE, KDS160-RTK
DV32	23362140	DIODE, KDS160-RTK
DV33	23362140	DIODE, KDS160-RTK
DV34	23362140	DIODE, KDS160-RTK
DV35	23362140	DIODE, KDS160-RTK
KB01	23009710	REMOCON RECEIVER, GP1UE281RK
MISCELLANEOUS		
A360	23717257	SCREW, PP5X8+SW+W ECO
A370	23717267	SCREW, BITTB4X16 SBN
A385	23717219	SCREW, PP3X8+SW+W SBN
A410	23717219	SCREW, PP3X8+SW+W SBN
A411	23717267	SCREW, BITTB4X16 SBN
A440	23738074	SCREW, PP 5X16 SW+W SBN
⚠ B001	23301659	DISPLAY, G5SHP37 LQ370T3LZ41
B215	23469405	INSULATOR, INSULATOR AC
B310	23717219	SCREW, PP3X8+SW+W SBN
B311	23717214	SCREW, BITTB3X12SBN
B321	23717214	SCREW, BITTB3X12SBN
B375	23717214	SCREW, BITTB3X12SBN
⚠ F801	23144406	FUSE, CERA 5X20 250V 6.3A
F801A	23165433	FUSE HOLDER, 5.2
F801B	23165433	FUSE HOLDER, 5.2
⚠ F820	23144378	FUSE, RADIAL LEAD SUB-MINIATUR 250V 2A
⚠ F870	23144378	FUSE, RADIAL LEAD SUB-MINIATUR 250V 2A
MJ22	23389359	CABLE, FFC 0.5 50P L70 GOLD
MJ60	23389359	CABLE, FFC 0.5 50P L70 GOLD
MV99	23389333	FFC, 20706SFWR-P=1.0-L1-19-137 P1.0-19P-145(WR)
MZ01	23368908	CABLE, LVDS30P170MM SHP T2 E30-X30
P602A	23713938	CONNECTOR, CONNECT B5B-PH-K-S(LF)
P661	23023302	EARPHONE JACK
P662	23023302	EARPHONE JACK
⚠ P801	23372353	POWER CORD, UK AC250V3A FL/FUSE13 @EZZB
⚠	23372298	POWER CORD, 250V2.5A @EZZC
⚠ P801A	23713702	PLUG, 2P 11.88MM W VT
P803A	23713764	PLUG, 13P
P803B	23713764	PLUG, 13P
P807A	23713764	PLUG, 13P
P807B	23713764	PLUG, 13P
P809A	23713763	PLUG, NP 2.5MM G, B12B-EH-F1A
P809B	23713763	PLUG, NP 2.5MM G, B12B-EH-F1A
P860	23713942	CONNECTOR, CONNECT B10B-PH-K-S(LF)
P861	23713942	CONNECTOR, CONNECT B10B-PH-K-S(LF)
PG01	23165495	TERMINAL, EARTH PHI3 MET31-0332
PG03	23165495	TERMINAL, EARTH PHI3 MET31-0332
PH01	23165460	TERMINAL, SINGLE ISA01-A
PH02	23165460	TERMINAL, SINGLE ISA01-A
PH03	23165460	TERMINAL, SINGLE ISA01-A
PJ21A	23713934	CONNECTOR, 2MM 3P S WHT B3B-PH-K-S(LF)
PJ22	23757180	CONNECTOR, FH12-50S-0.5SV(55)
PJ22A	23757176	CONNECTOR, IRS 9637S-50Y902 GLD
PJ41	23713943	CONNECTOR, CONNECT B11B-PH-K-S(LF)
PJ41A	23713943	CONNECTOR, CONNECT B11B-PH-K-S(LF)
PJ42	23713939	CONNECTOR, CONNECT B6B-PH-K-S(LF)
PJ42A	23713948	CONNECTOR, CONNECT S6B-PH-K-S(LF)

Signal (Scaler) Board - Service part Number

Series	Model	PANEL	Part Number (Service)	OPT1	OPT2	OPT3	OPT4
WL56	32WL56P(B)	SHP-32	23587821	35	00	0A	25
		AUO-32	23590399			0A	45
	32WL56P(G)	SHP-32	23587821			00	25
		AUO-32	23590400			00	45
	37WL56P(B)	LPL-37	23587823			0A	16
		AUO-37	23590401			0A	46
	37WL56P(G)	LPL-37	23587823			00	16
		AUO-37	23590402			00	46
	27WL56P(B)	CMO-27	23587825			0A	34
	27WL56P(G)	CMO-27	23587825			00	34
WL/WLT58	32WL58P(B)	SHP-32	23587827	71	00	0A	25
		LPL-32	23590403			0A	15
	32WL58P(G)	SHP-32	23587827			00	25
		LPL-32	23590404			00	15
	37WL58P(B)	SHP-37	23587829			0A	26
		LPL-37	23590405			0A	16
	37WL58P(G)	SHP-37	23587829			00	26
		LPL-37	23590406			00	16
	42WL58P(B)	LPL-42	23587831			0A	17
	42WL58P(G)	LPL-42	23587831			00	17
	32WLT58	SHP-32	23587833			2A	25
		LPL-32	23590407			2A	15
	37WLT58	SHP-37	23587834			2A	26
		LPL-37	23590408			2A	16
	42WLT58	LPL-42	23587835			2A	17

Key to Panel Type:

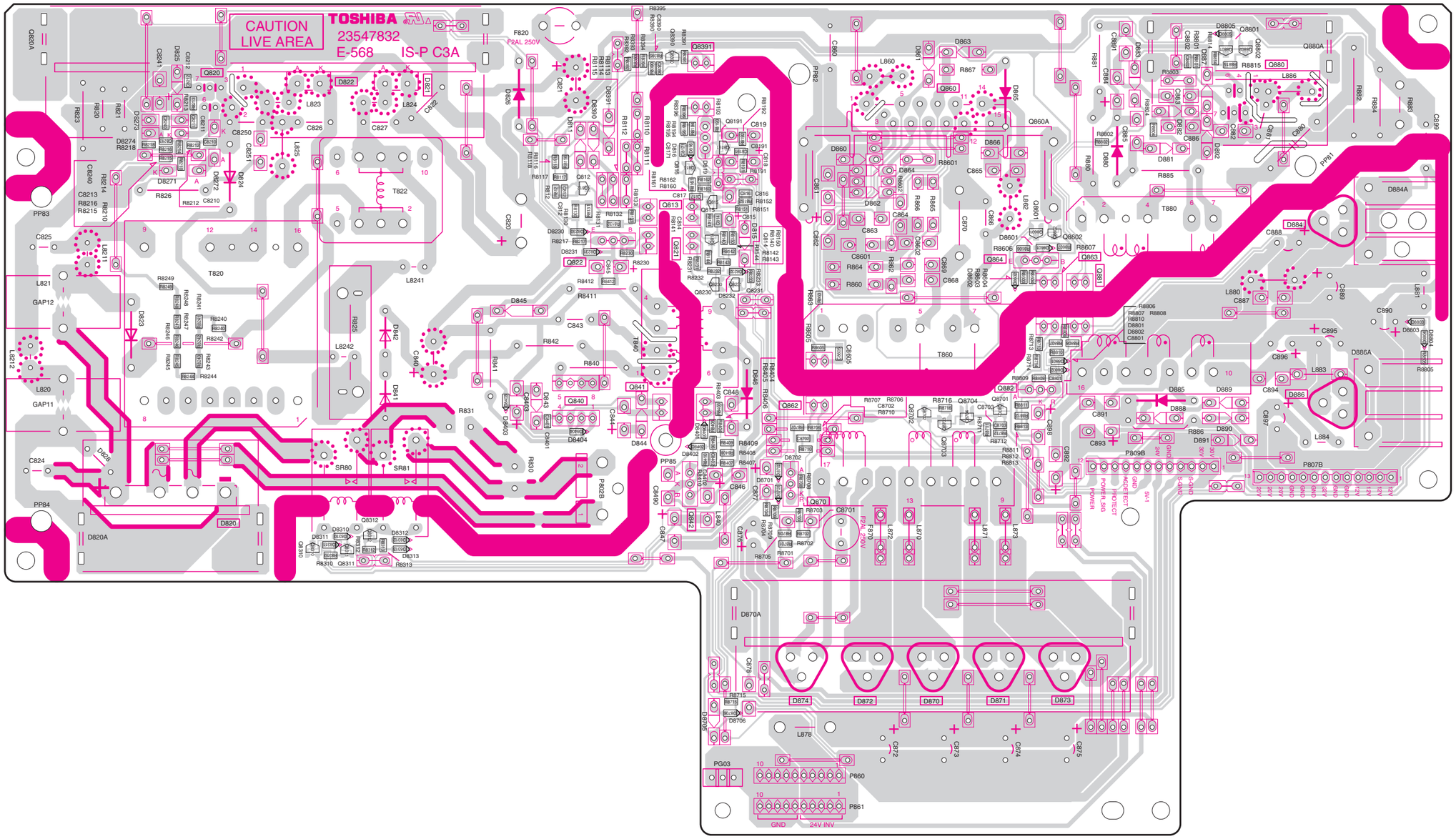
SHP= Sharp
AUO=AUO
LPL=LG Philips
CMO=Chi Mei

Location No.	Parts No.	Description
PJ60	23757180	CONNECTOR, FH12-50S-0.5SV(55)
PJ60A	23757176	CONNECTOR, IRS 9637S-50Y902 GLD
PJ610	23713819	SOCKET, TWG-P23X-A1
PJ930	23713574	CONNECTOR, 7P TOPTYPE BM07B-SRSS-TBT(LF)
PP01	23845859	HOLDER, WIRE, PVC-C0AT, L=70MM
PP02	23974994	BAND, KESSOKU
PP07	23528292	HOLDER, ABMM-A-D, (NO SERVICE)
PP08	23974994	BAND, KESSOKU
PP12	23974994	BAND, KESSOKU
PS01	23023440	JACK, PIN RA 2P SMK LPR8021-0110F
PS02	23023440	JACK, PIN RA 2P SMK LPR8021-0110F
PV01	23023271	JACK, PIN 6/6P JALCO, YKC21-4673N
PV02	23023272	JACK, PIN 2P YKC21-4112N
PV25A	23713944	CONNECTOR, CONNECT B12B-PH-K-S(LF)
PV60	23365275	JACK, PHONO 3P V-L-R YKC21
PV61	23023300	JACK, Y/C YKF51-5560
PV90	23713710	SOCKET, D-SUB 15P, KRD-8622
SA01	23344505	SWITCH, PUSH 1C1P
SA02	23344505	SWITCH, PUSH 1C1P
SA03	23344505	SWITCH, PUSH 1C1P
SA04	23344505	SWITCH, PUSH 1C1P
SA05	23344505	SWITCH, PUSH 1C1P
SA06	23344505	SWITCH, PUSH 1C1P
SA07	23344505	SWITCH, PUSH 1C1P
⚠ SR80	23146588	RELAY, DLS5D1-O(M) 0.15W
⚠ SR81	23146584	RELAY, DC12V, TV5, DG-3
W661	23351321	SPEAKER, ASSY, 6X12+TW 8-OHM 10 SPK-1469AO
X501	23153612	CRYSTAL, 16.200 25PPM 25OHM
PC BOARD ASSEMBLIES		
✻ U001	PD2238A1	SIGNAL (scaler) see previous page.
✻ U002A	75001532	PC BOARD ASSY, POWER PD2171A1
✻ U002B	75001533	PC BOARD ASSY, AC IN PD2171A2
✻ U003A	75001609	PC BOARD ASSY, PD2172A1 TN AV
✻ U003B	75001610	PC BOARD ASSY, PD2172A2 FRONT AV
✻ U003C	75001611	PC BOARD ASSY, PD2172A3 RMT LED
✻ U003D	75001612	PC BOARD ASSY, PD2172A4 KEY
✻ U003E	75001613	PD BOARD ASSY, PD2172A5 PC HDMI
✻ U004	75001607	PC BOARD ASSY, PD2173A1 LOW B
TUNER		
H001	23321543	TUNER, TIF EU HOR61 IEC PAL+L ENG37A13GF
ACCESSORIES		
A701A	23015120	CARTON, TOP CASE 37WL58P
A701B	23015121	CARTON, BOTTOM CASE 37WL58P
A702A	23580010	PACKING, TOP PACKING 37WL58P
A702B	23580011	PACKING, BOTTOM PACKING 37WL58P
A705	23518043	PACKING, JOINT
⚠ Y101	23566684	OWNERS MANUAL, ENGLISH
⚠ Y101E	23566685	OWNERS MANUAL, EURO
Y130	23306643	REMOCON HAND UNIT IR, PDPPAL CT-90126
Y170	23845800	HOLDER, WIRE, NYLON66 D6.8
CABINET PARTS		
A201	23533477	COVER, FRONT BEZEL ASSY 37WL58P
A315	23533483	COVER, BACK CENTER COVER 37WL58P
A320	23940438	PIECE, FRONT AV ASSY
A340	23940440	PIECE, CONTROL HOLDER ASSY
⚠ A401	23533479	COVER, BACK COVER ASSY 37WL58P
A420	23436882	FOOT, STAND ASSY 37WL58P
A445	23533960	COVER, BC BOTTOM COVER 37WL58P
A450	23533481	COVER, BC SIDE COVER 37WL58P

Location No.	Parts No.	Description

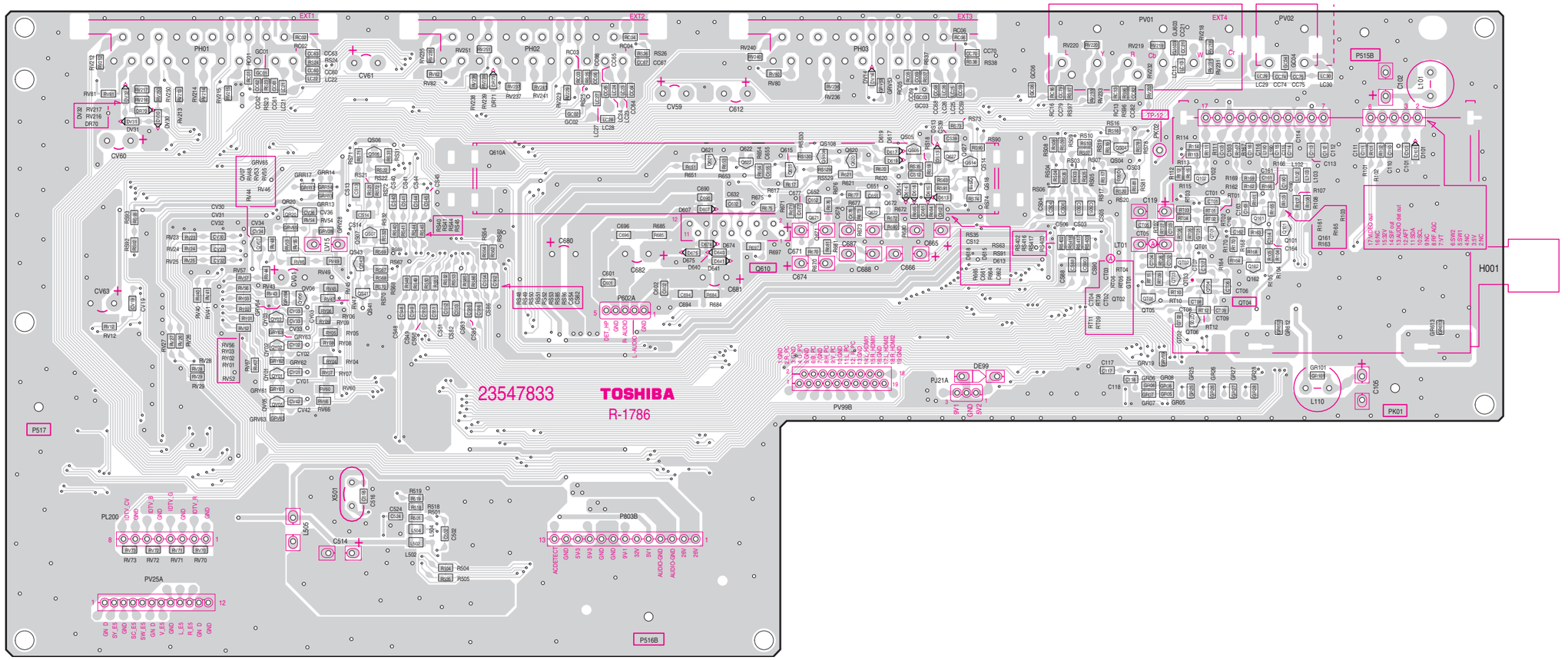
POWER BOARD PD2171A1 (U002A)

BOTTOM (FOIL) SIDE



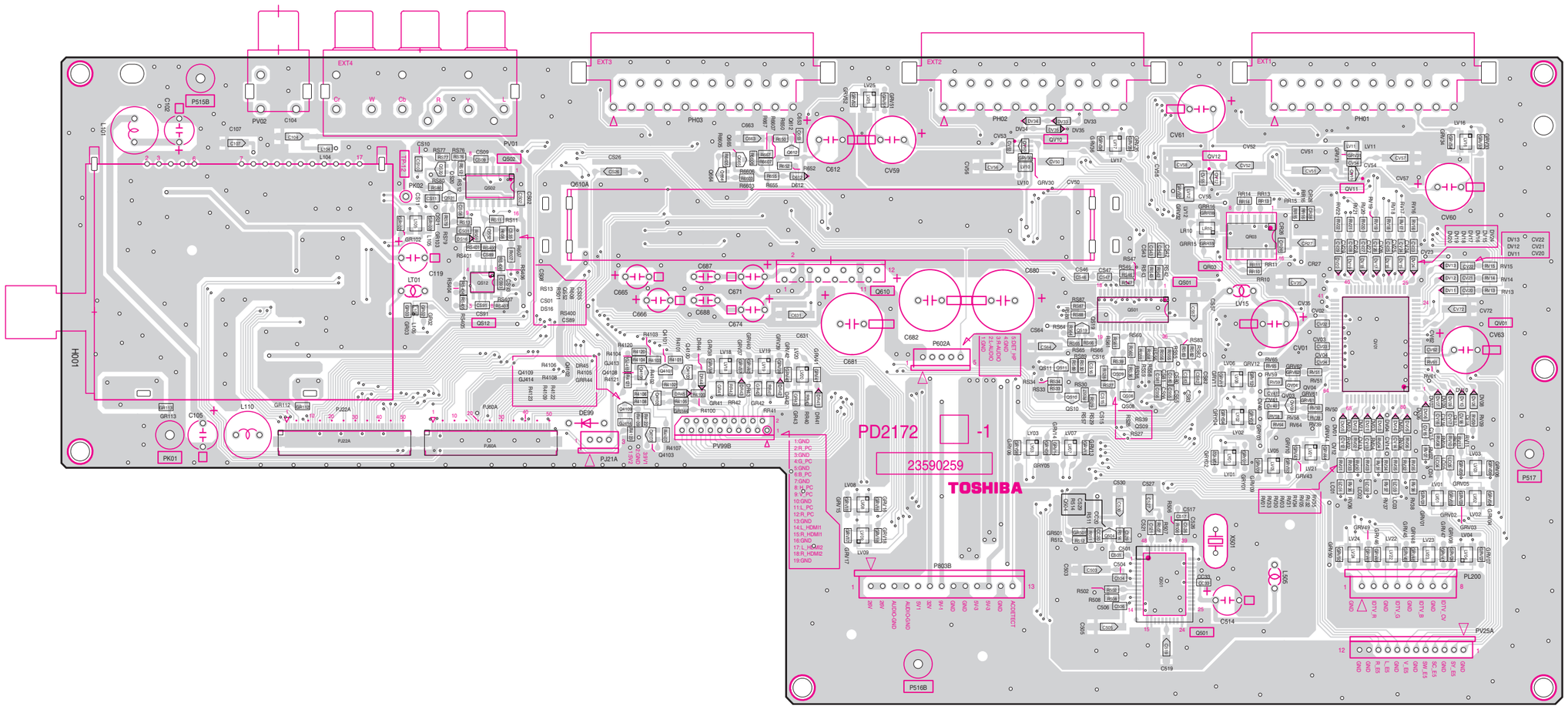
TN AV BOARD PD2172A1 (U003A)

BOTTOM (FOIL) SIDE



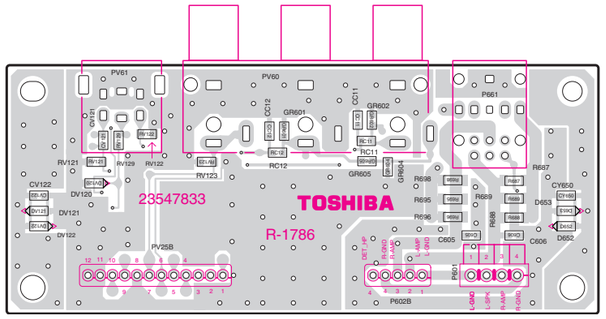
TN AV BOARD PD2172A1 (U003A)

TOP (COMPONENT) SIDE



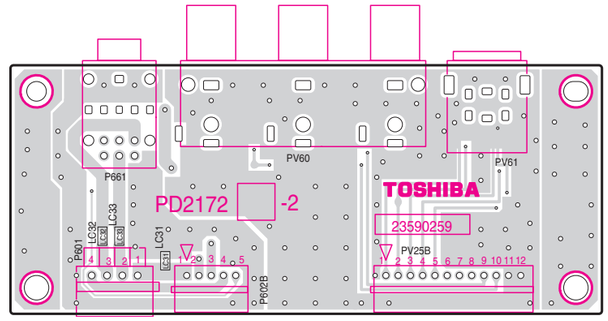
FRONT AV BOARD PD2172A2 (U003B)

BOTTOM (FOIL) SIDE



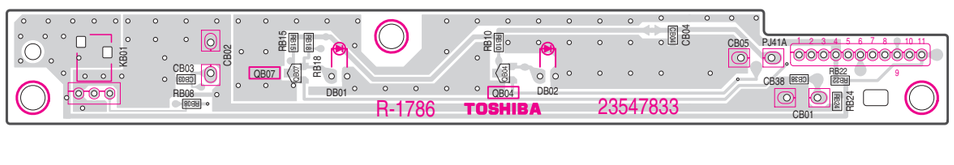
FRONT AV BOARD PD2172A2 (U003B)

TOP (COMPONENT) SIDE



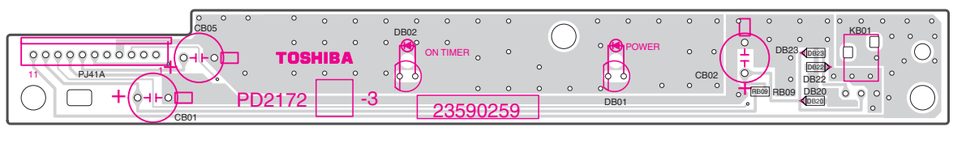
RMT LED BOARD PD2172A3 (U003C)

BOTTOM (FOIL) SIDE



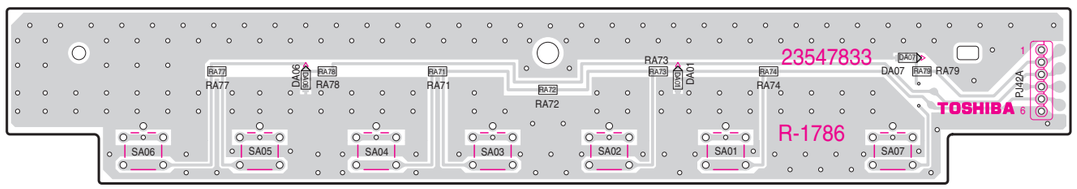
RMT LED BOARD PD2172A3 (U003C)

TOP (COMPONENT) SIDE



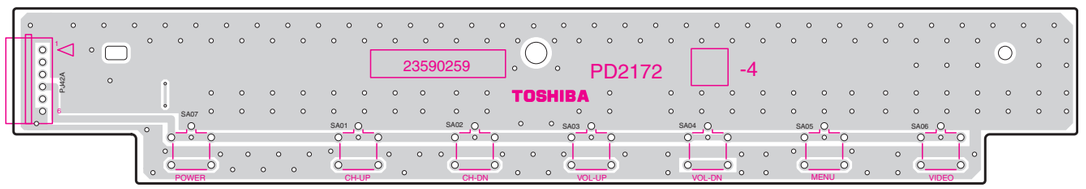
KEY BOARD PD2172A4 (U003D)

BOTTOM (FOIL) SIDE



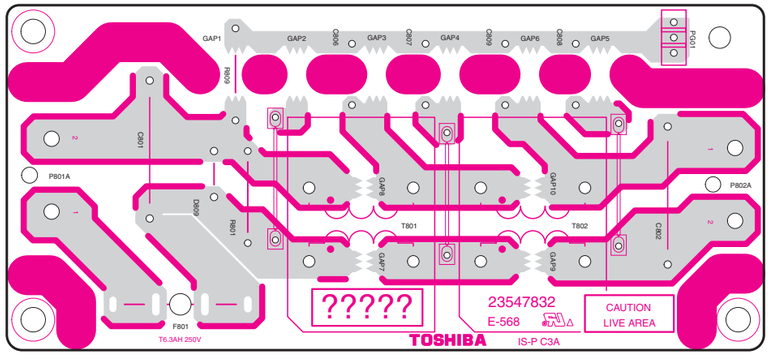
KEY BOARD PD2172A4 (U003D)

TOP (COMPONENT) SIDE



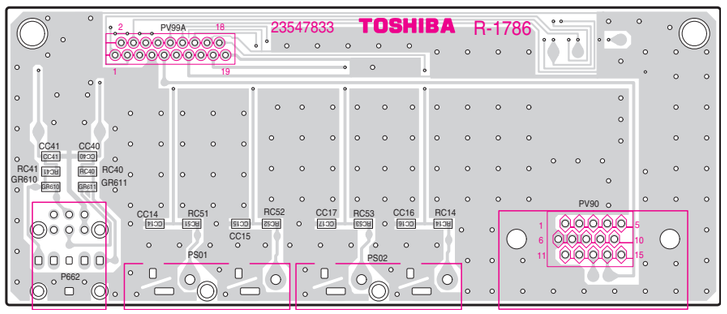
AC IN BOARD PD2171A2 (U002B)

BOTTOM (FOIL) SIDE



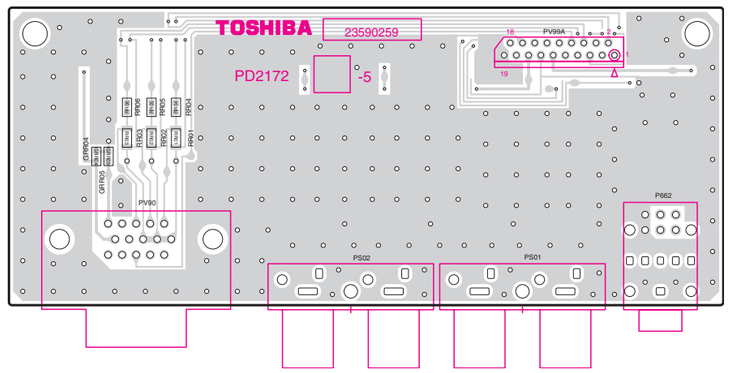
PC HDMI BOARD PD2172A5 (U003E)

BOTTOM (FOIL) SIDE



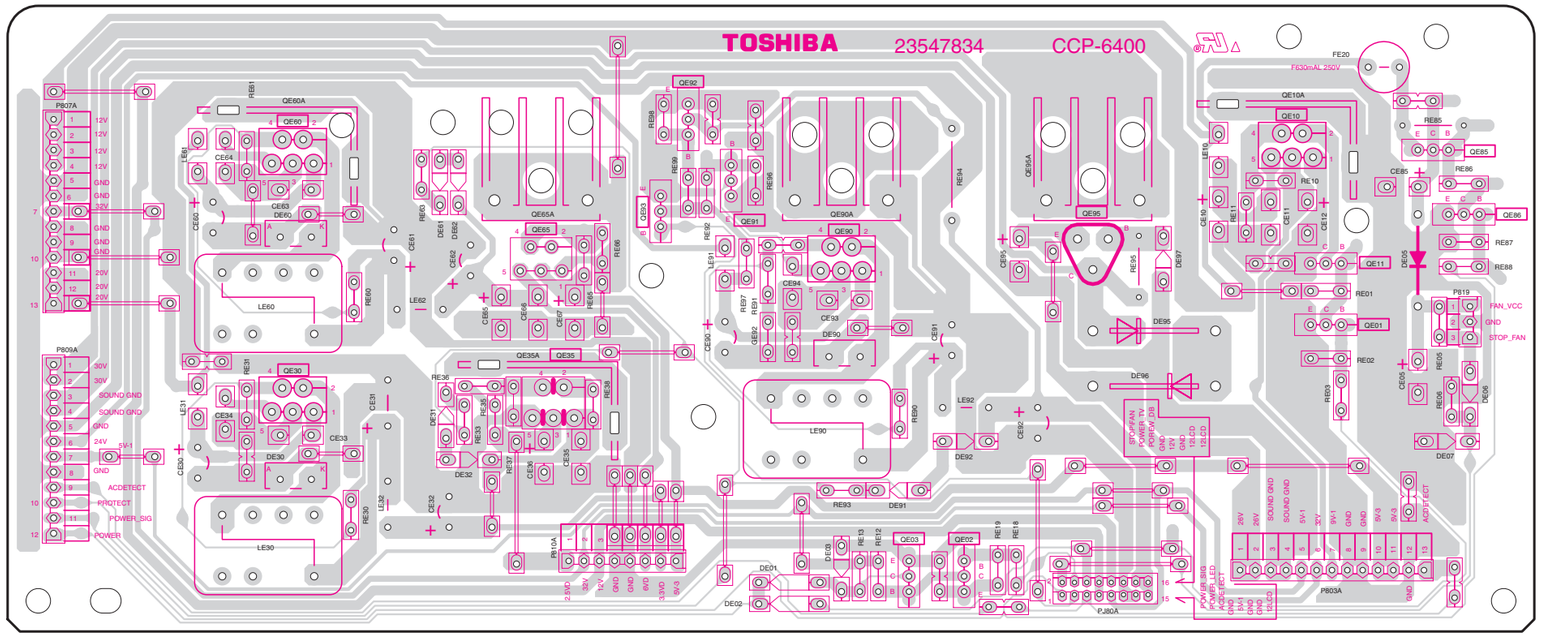
PC HDMI BOARD PD2172A5 (U003E)

TOP (COMPONENT) SIDE



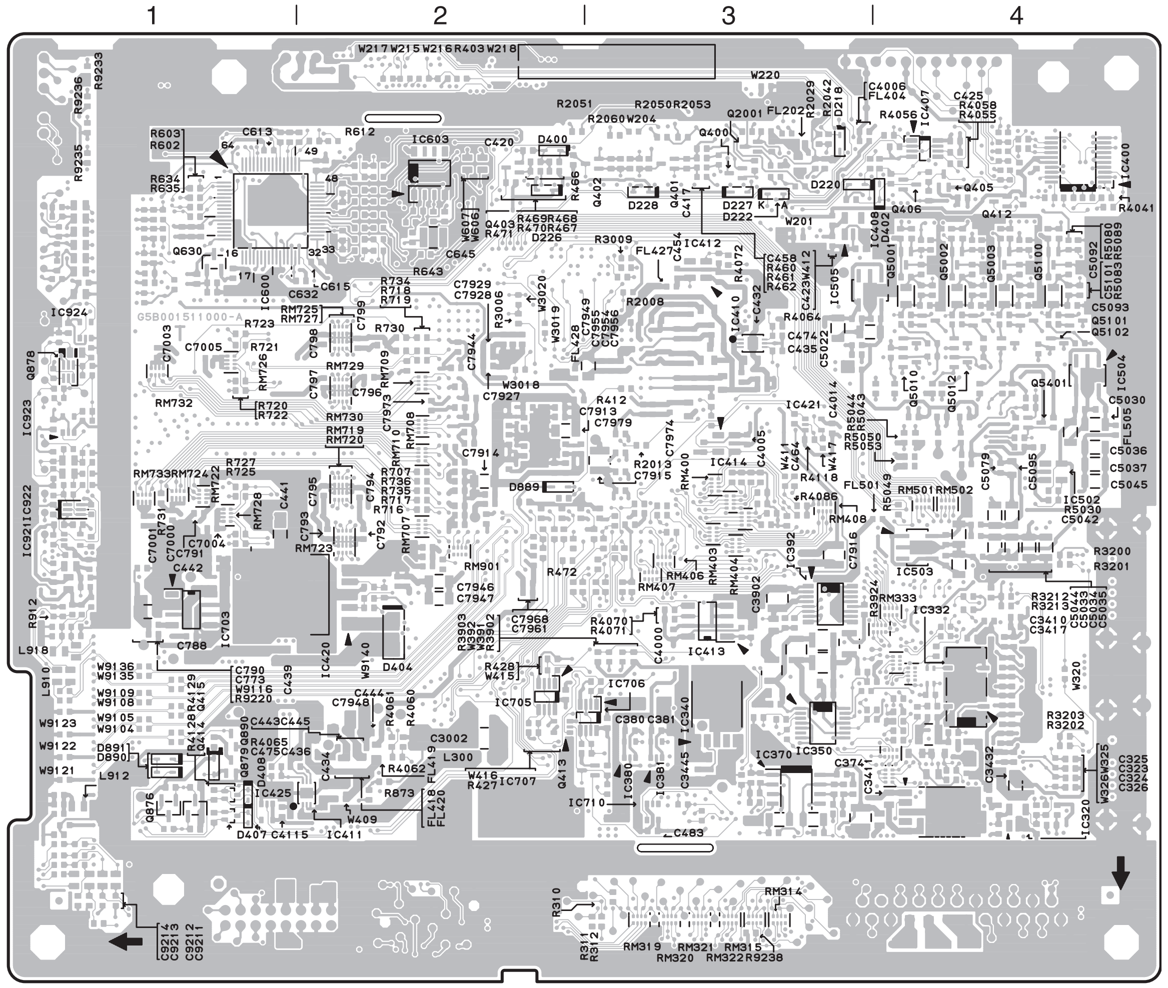
LOW B BOARD PD2173A1 (U004)

BOTTOM (FOIL) SIDE



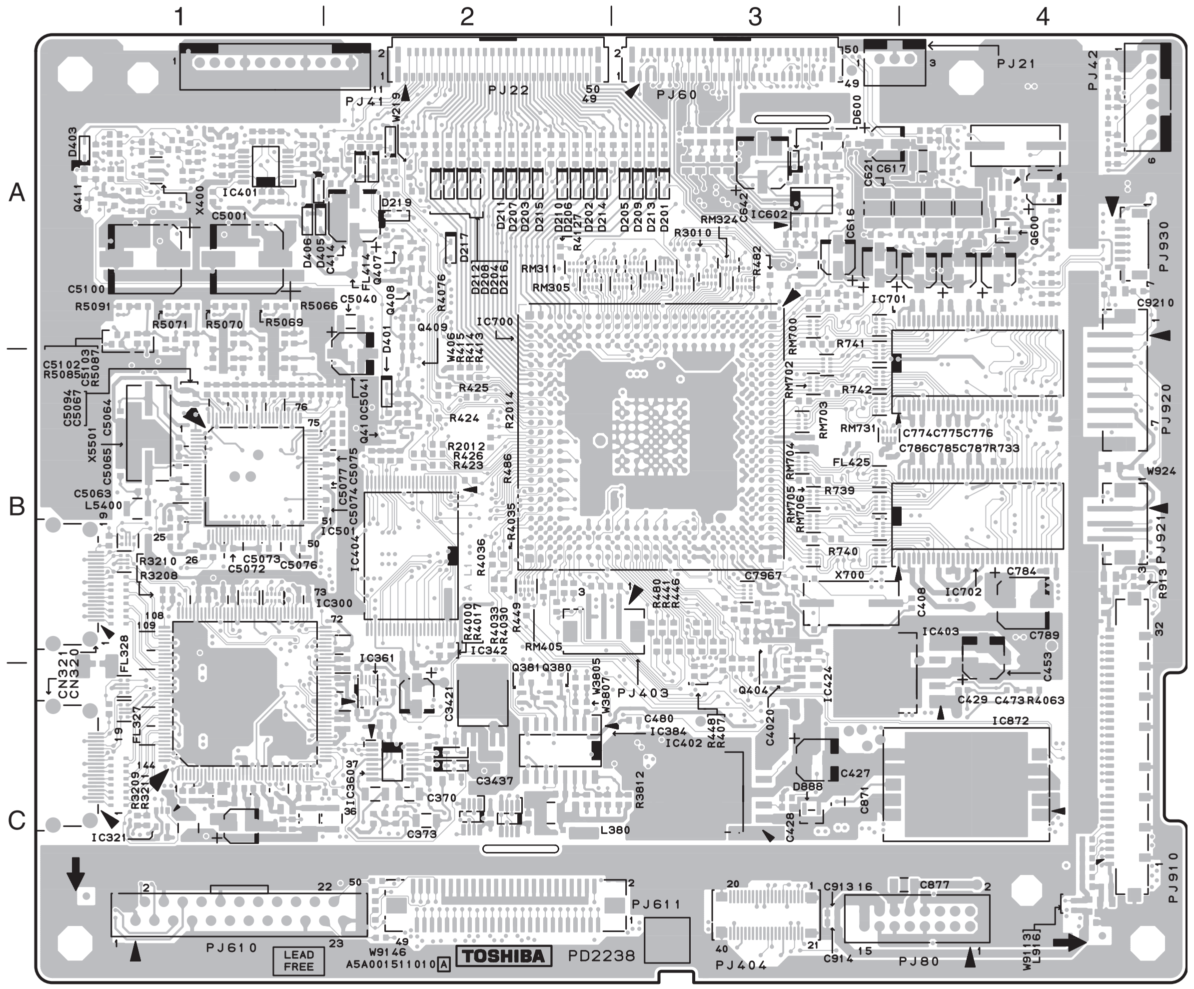
SIGNAL BOARD PD2238A1 (U001)

BOTTOM (FOIL) SIDE



SIGNAL BOARD PD2238A1 (U001)

TOP (COMPONENT) SIDE



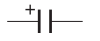
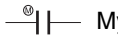
SCHEMATIC DIAGRAM

MODEL : 37WL58P

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SERVICE SAFETY PRECAUTIONS" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt
   1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt
   10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
    Electolytic capacitor
    Mylar capacitor
3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage at 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

AC INPUT Circuit 1/65
LOW_B Circuit
- CONNECTOR [SHEET-1/2] 2/65
- LOWB [SHEET-2/2] 3/65

PC-HDMI-IN Circuit 4/65
POWER Circuit
- CONNECTOR [SHEET-1/7] 5/65
- RELAY/RUSH PROTECTION [SHEET-2/7] 6/65
- PFC [SHEET-3/7] 7/65
- STANDBY POWER [SHEET-4/7] 8/65
- RCC POWER [SHEET-5/7] 9/65
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LED RMT Circuit 12/65
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- D_IN_B [SHEET-301] 32/65
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- HDMI AUDIO PLL [SHEET-305] 36/65
- HDMI AUDIO DAC [SHEET-306] 37/65
- HDMI AUDIO OUT [SHEET-307] 38/65
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- EEPROM1 [SHEET-309] 40/65
- EEPROM2 [SHEET-310] 41/65
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- OCM MEMORY I/F [SHEET-401] 43/65
- FLASH MEMORY [SHEET-402] 44/65
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- STD-BY MICRO [SHEET-405] 47/65
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- CORTEZ REG 2 [SHEET-407] 49/65
- CORTEZ REG 3 [SHEET-408] 50/65
- BOOT CONFIG [SHEET-409] 51/65
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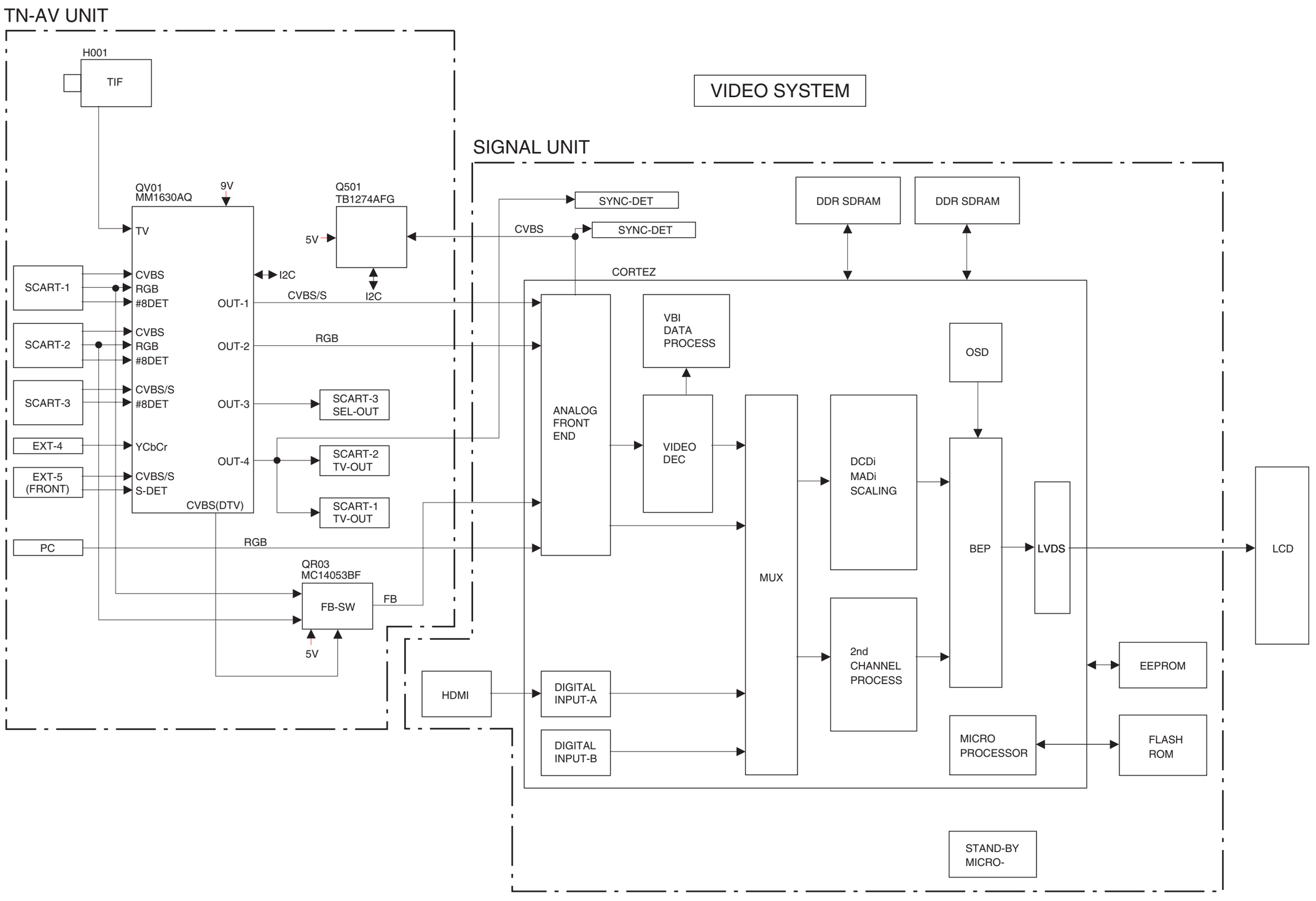
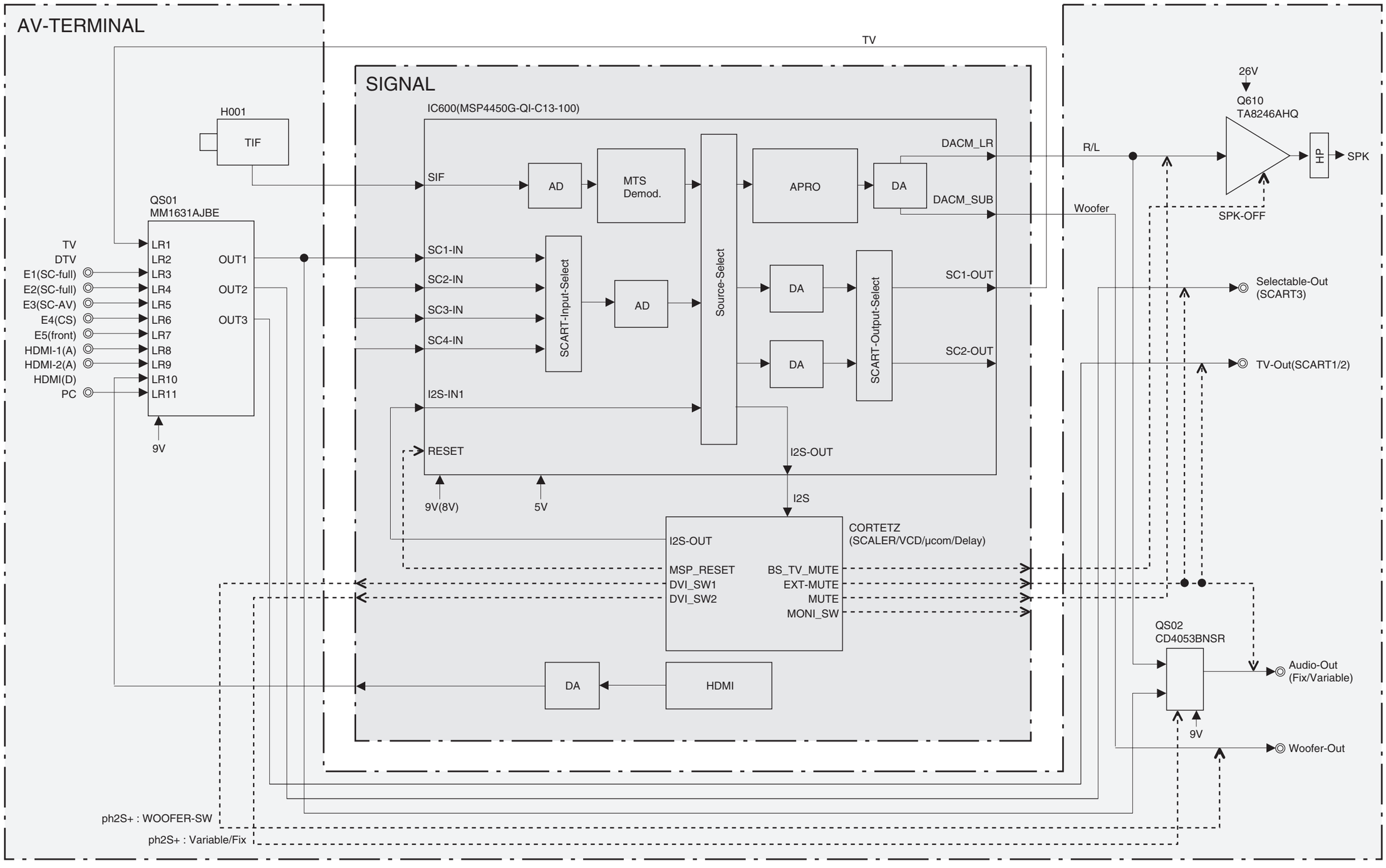
- I2C Switch [SHEET-411] 53/65
- AUDIO (1/2) [SHEET-600] 54/65
- AUDIO (2/2) [SHEET-601] 55/65
- CORTEZ 1 [SHEET-700] 56/65
- CORTEZ 2 [SHEET-701] 57/65
- DDR I/F [SHEET-702] 58/65
- DDR SDRAM [SHEET-703] 59/65
- DDR TERMINATION [SHEET-704] 60/65
- DCDC CONV. [SHEET-802] 61/65
- LVDS OUT [SHEET-900] 62/65
- LVDS OUT(SHARP LCD) [SHEET-901] 63/65
- Power Connector and Dimming [SHEET-902] 64/65
- LVDS Power and Others [SHEET-903] 65/65

CIRCUIT BLOCK DIAGRAM



AUDIO SYSTEM



SPECIFICATIONS

Broadcast systems/channels

PAL-I	UHFUK21-UK69
PAL-B/G	UHFE21-E69 VHFE2-E12, S1-S41
SECAM-L	UHFF21-F69 VHFF1-F10, B-Q
SECAM-D/K	UHFR21-R69 VHFR1-R12

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

EXT1	Input	21-pin SCART	RGB, A/V
EXT2	Input	21-pin SCART	RGB, A/V
EXT3	Input/Output	21-pin SCART	A/V S-video Selectable output
EXT4	Input	Phono jacks	Y, P_B/C_B, P_R/C_R
		Phono jacks	A/V
EXT5	Input (Side)	4 pin	S-video
		Phono jack	Video
		Phono jacks	Audio L + R
HDMI	Input	HDMI connector	Digital television and audiosignal
	Input	Phono jacks	Audio L + R
PC	Input	Mini D-sub 15-pin	Analog RGB signal
	Input	3.5mm stereo jack	Audio
Audio Ouput Fixed/Variable		Phono jacks	Audio L + R
Output to Active Super Woofer		Phono socket	

Programme Positions 100

Stereo Nicam
2 carrier system

Visible Screen Size (approx.) 94cm

Display 16:9

Sound output (at 10% distortion) Main 10W + 10W

Power consumption as specified in EN60107-1 : 1997 185W

Standby (approx.) <0.5W

Dimensions (approx.) 67cm (H) 91cm (W) 32cm (D)
(Height dimension includes foot stand)

Weight (approx.) 26kg

Headphone socket 3.5mm stereo

Accessories Remote control
2 batteries
(AAA, IEC R03 1.5V)

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

SCHEMATIC DIAGRAM

MODEL : 37WL58P

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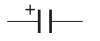
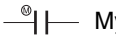
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
    Electolytic capacitor
    Mylar capacitor
3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage at 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

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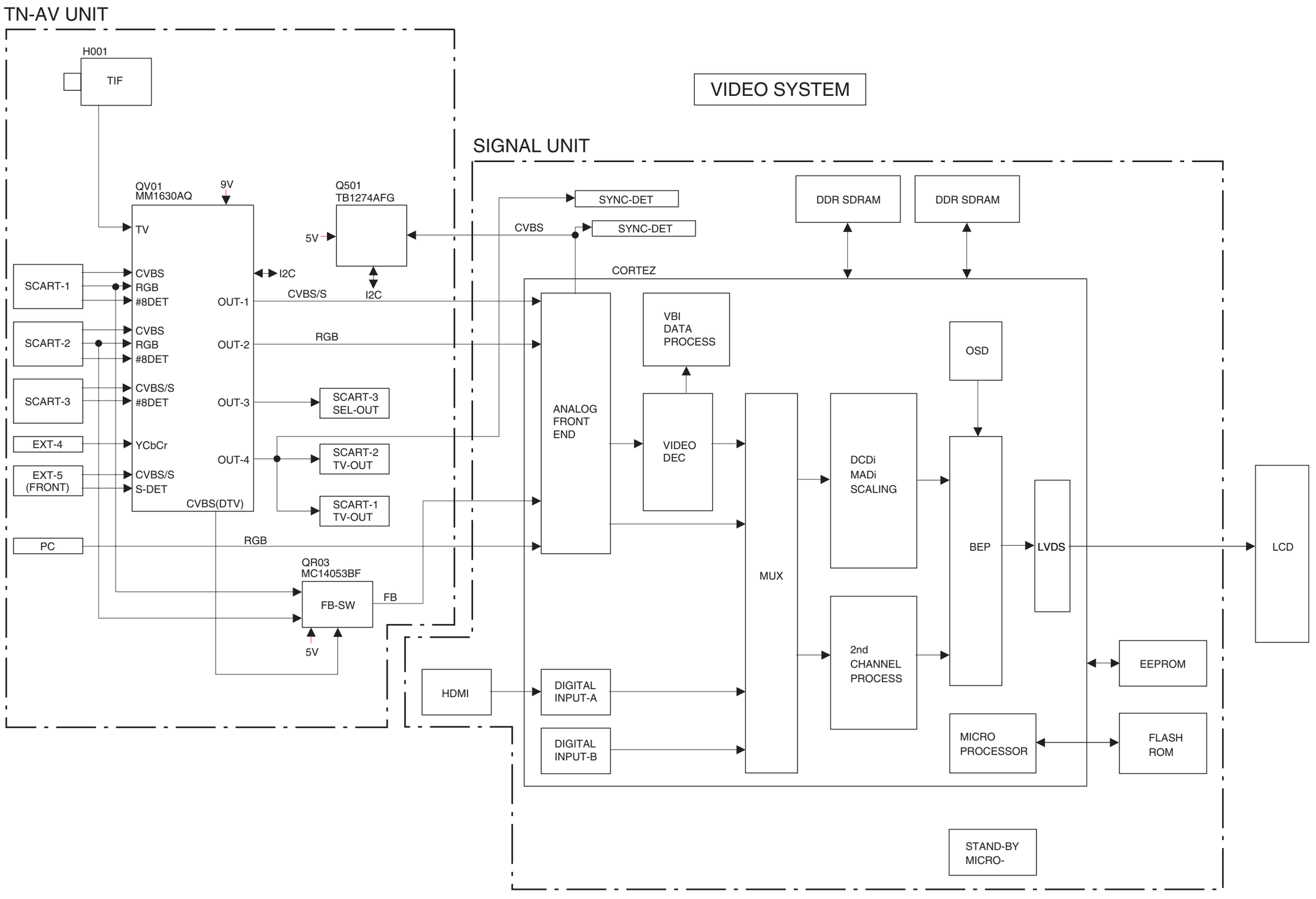
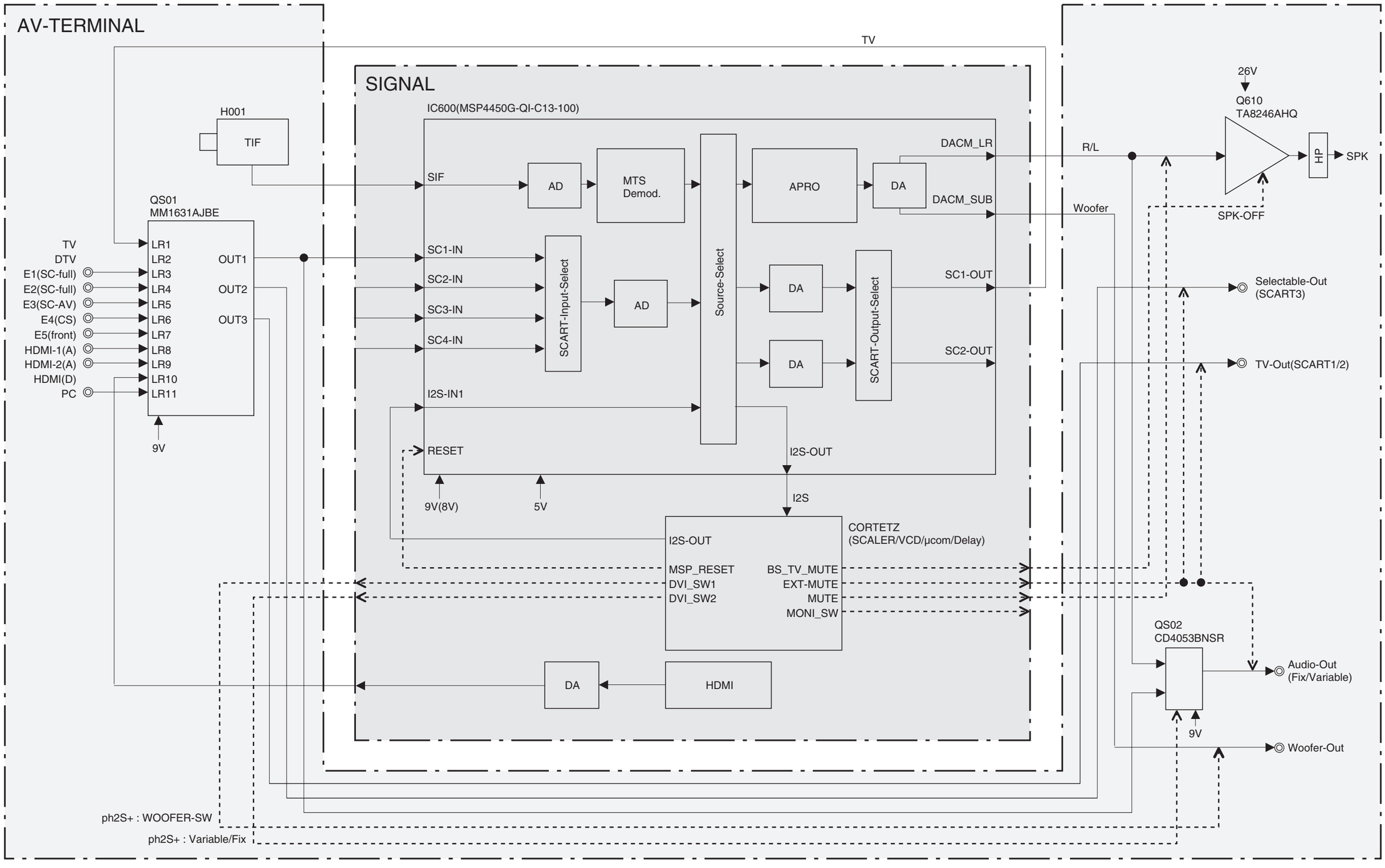
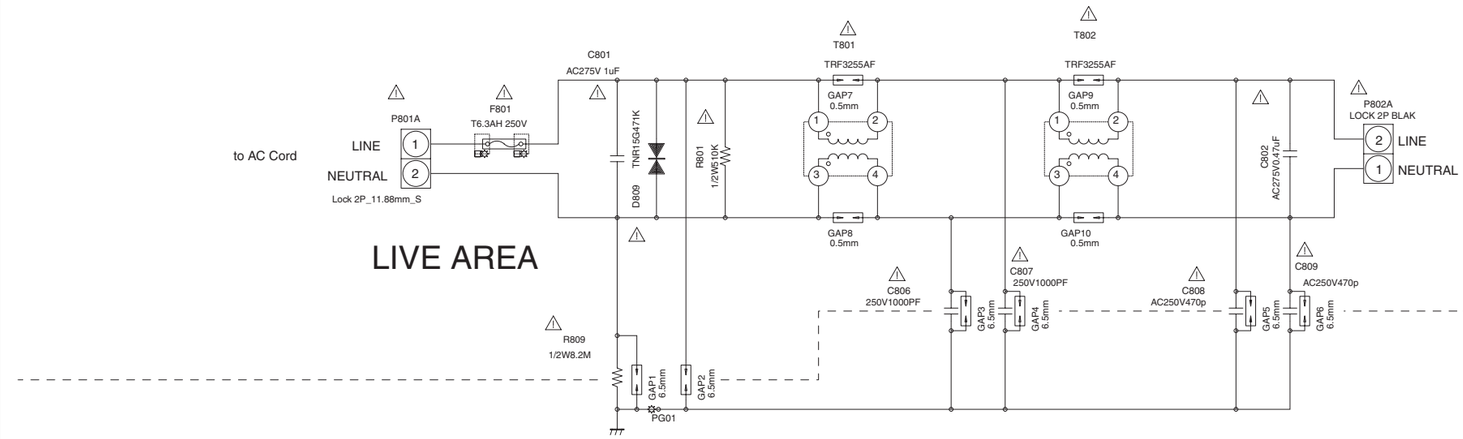
CIRCUIT BLOCK DIAGRAM

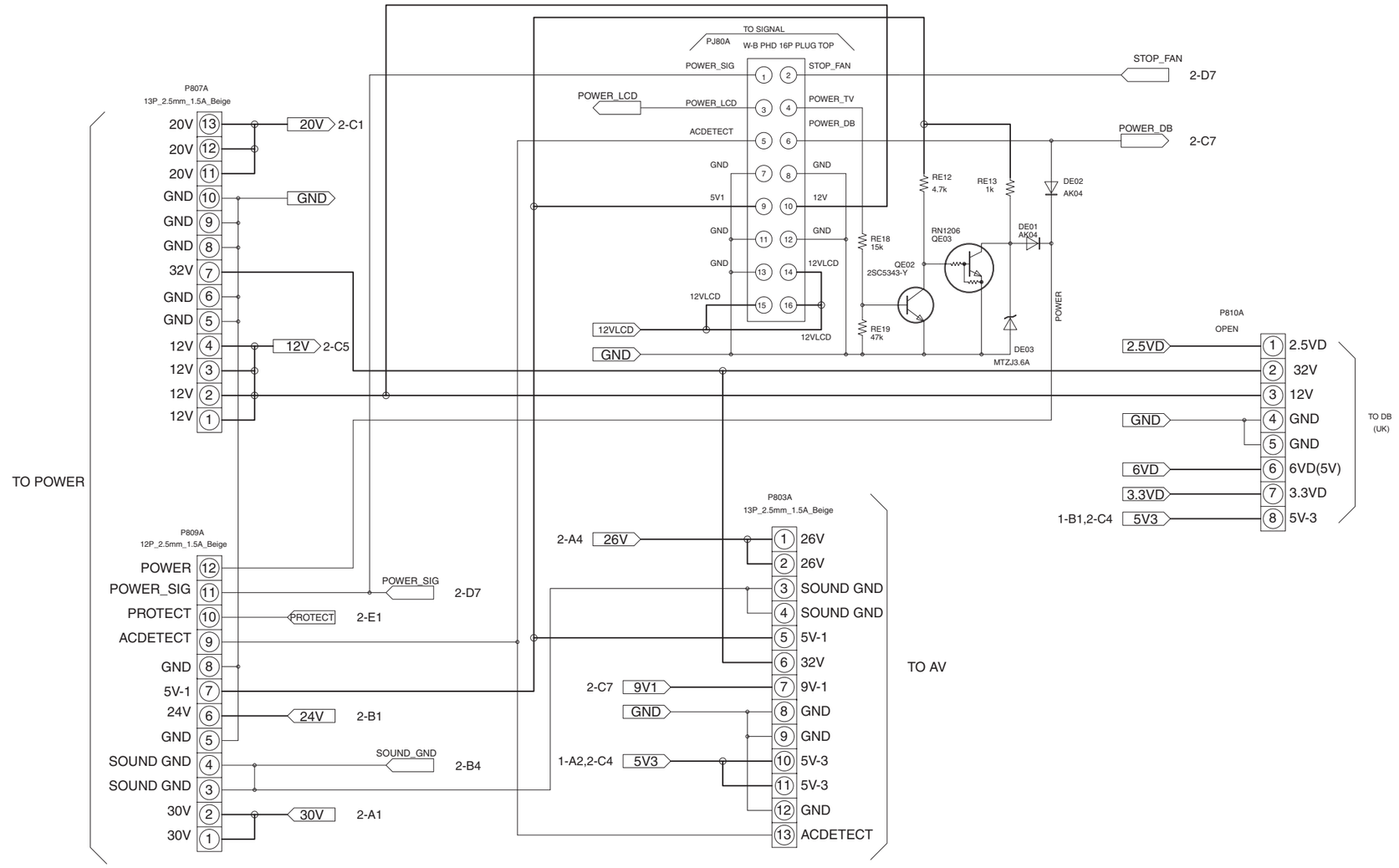


AUDIO SYSTEM

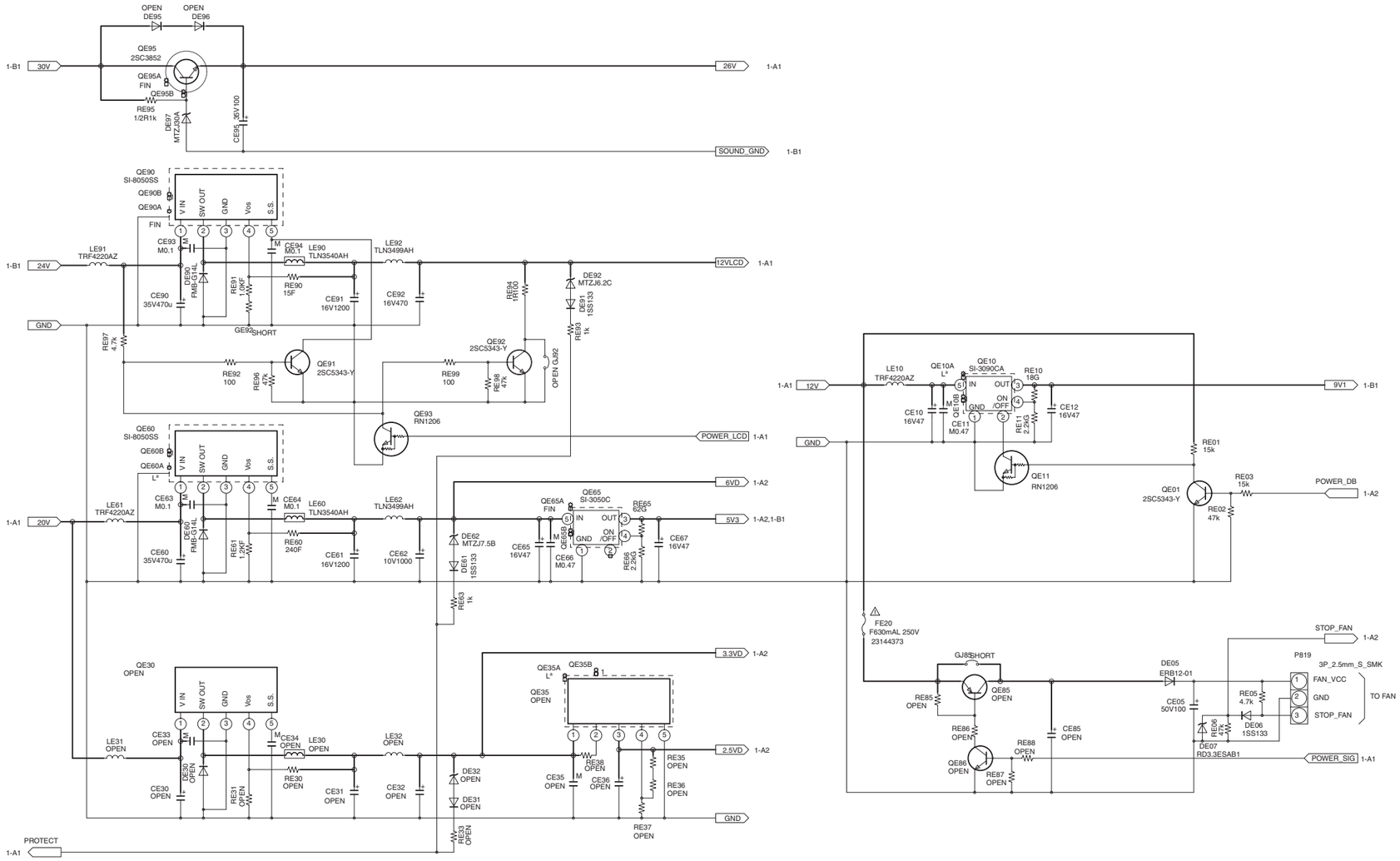




37WL58P
AC INPUT

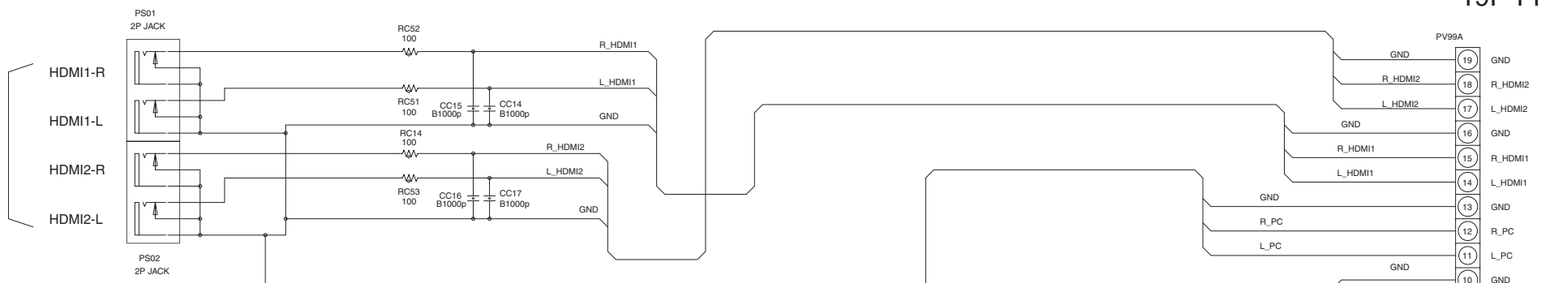


37WL58P
LOW_B (CONNECTOR)
SHEET-1/2

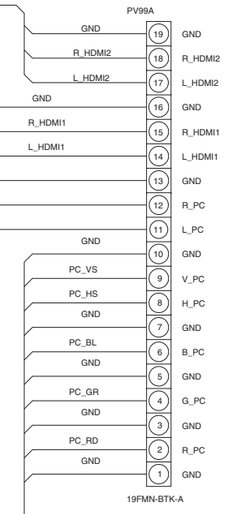


37WL58P
LOW_B (LOWB)
SHEET-2/2

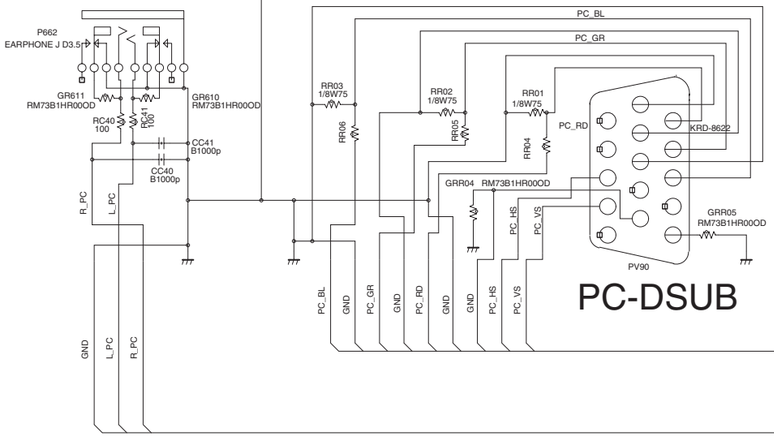
HDMI Audio



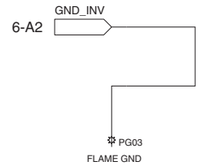
19P-FFC

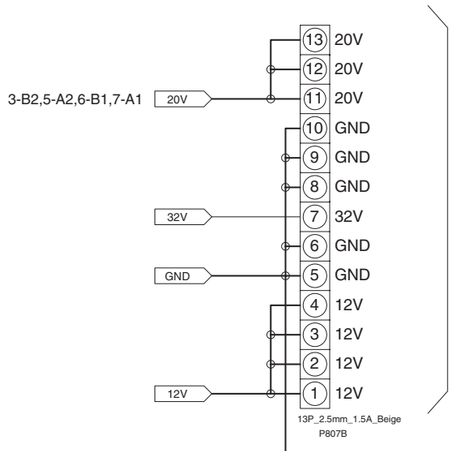


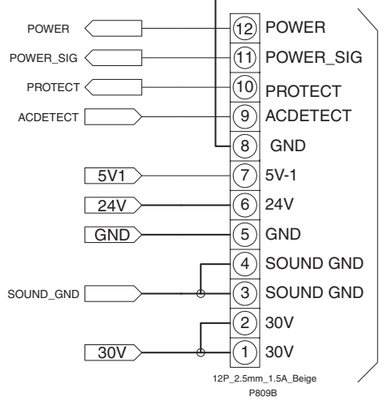
PC SOUND

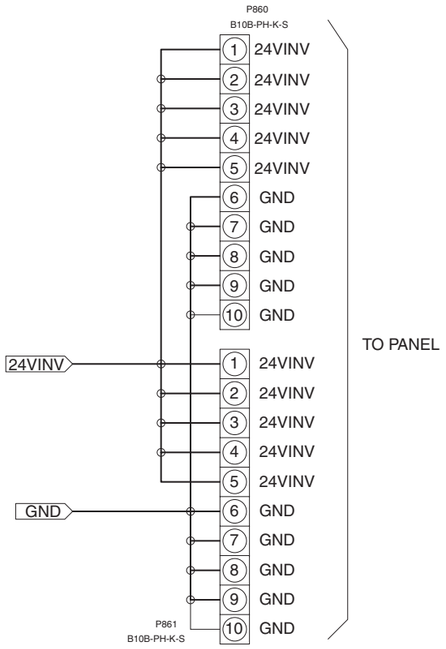


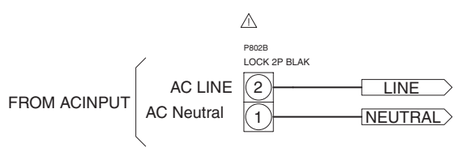
37WL58P
PC-HDMI-IN





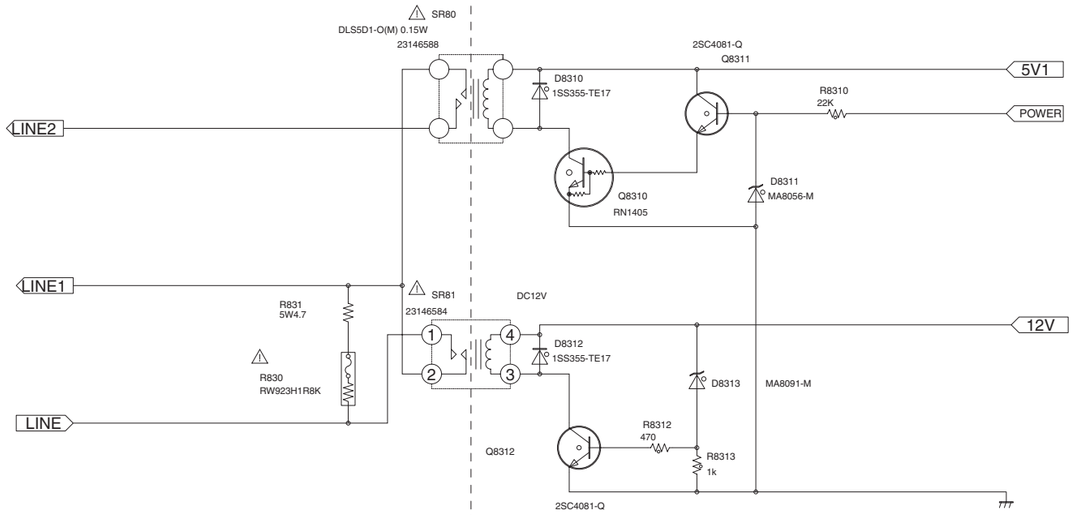






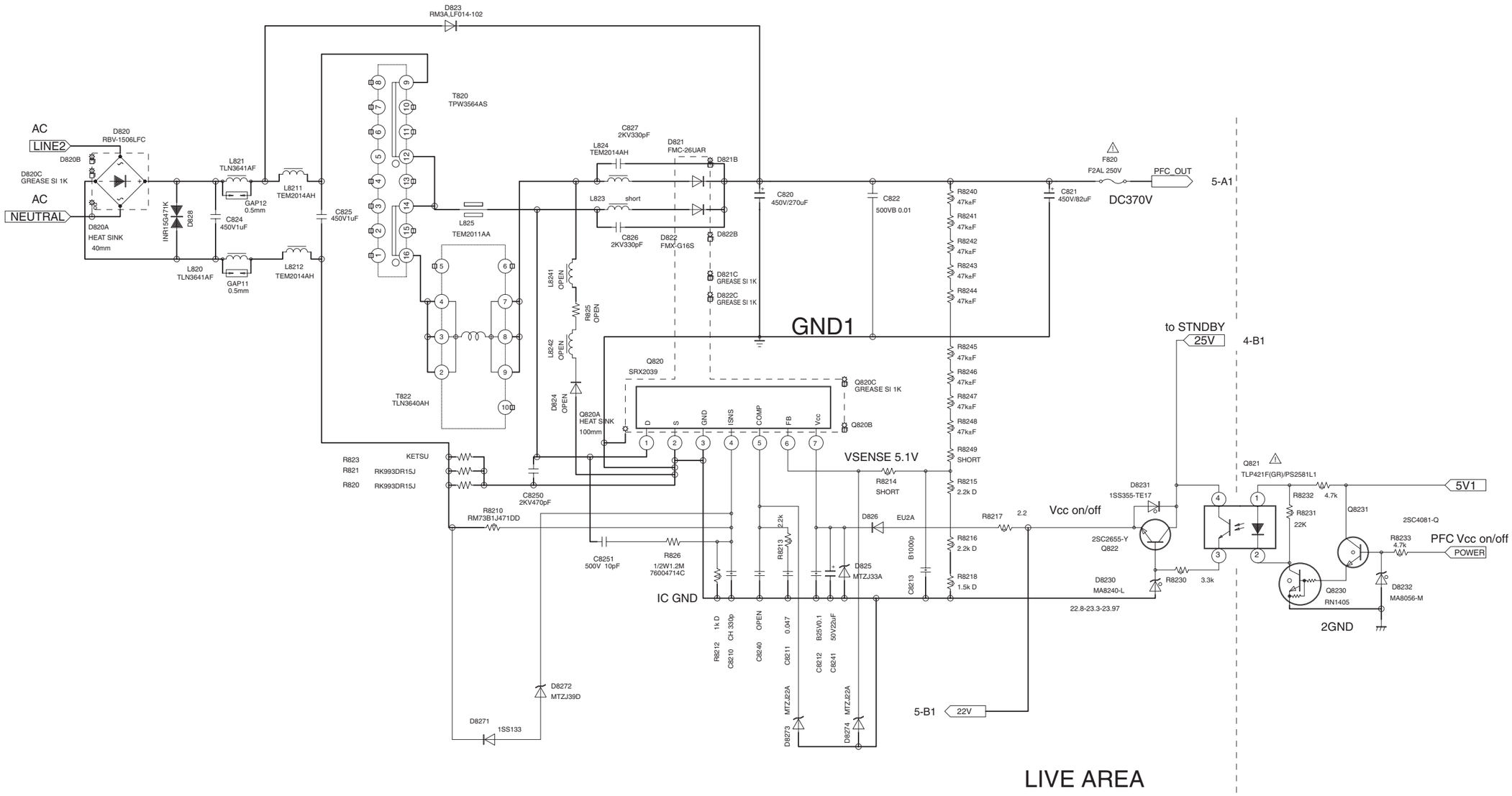
LIVE AREA

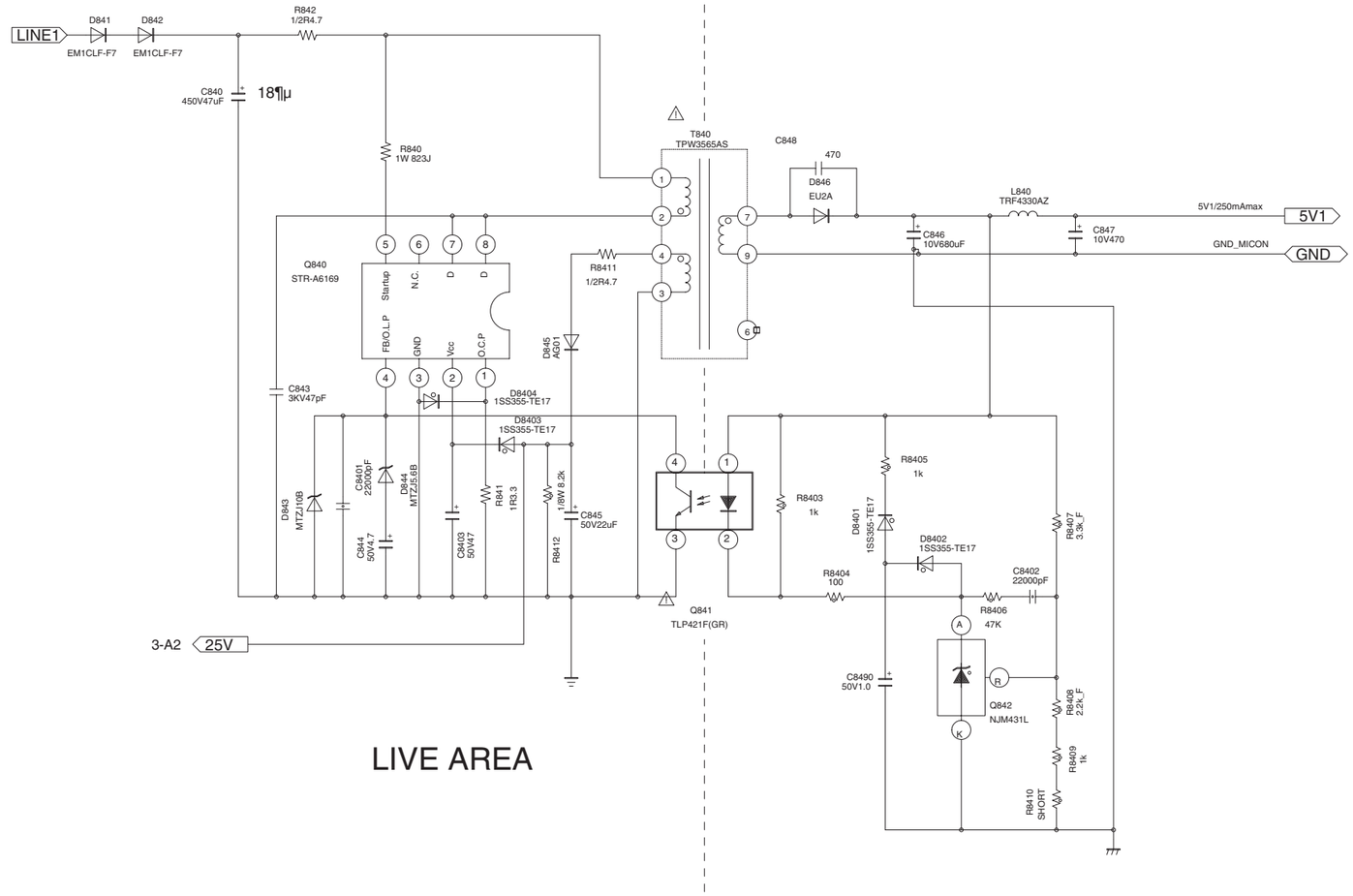
37WL58P
POWER (CONNECTOR)
SHEET-1/7



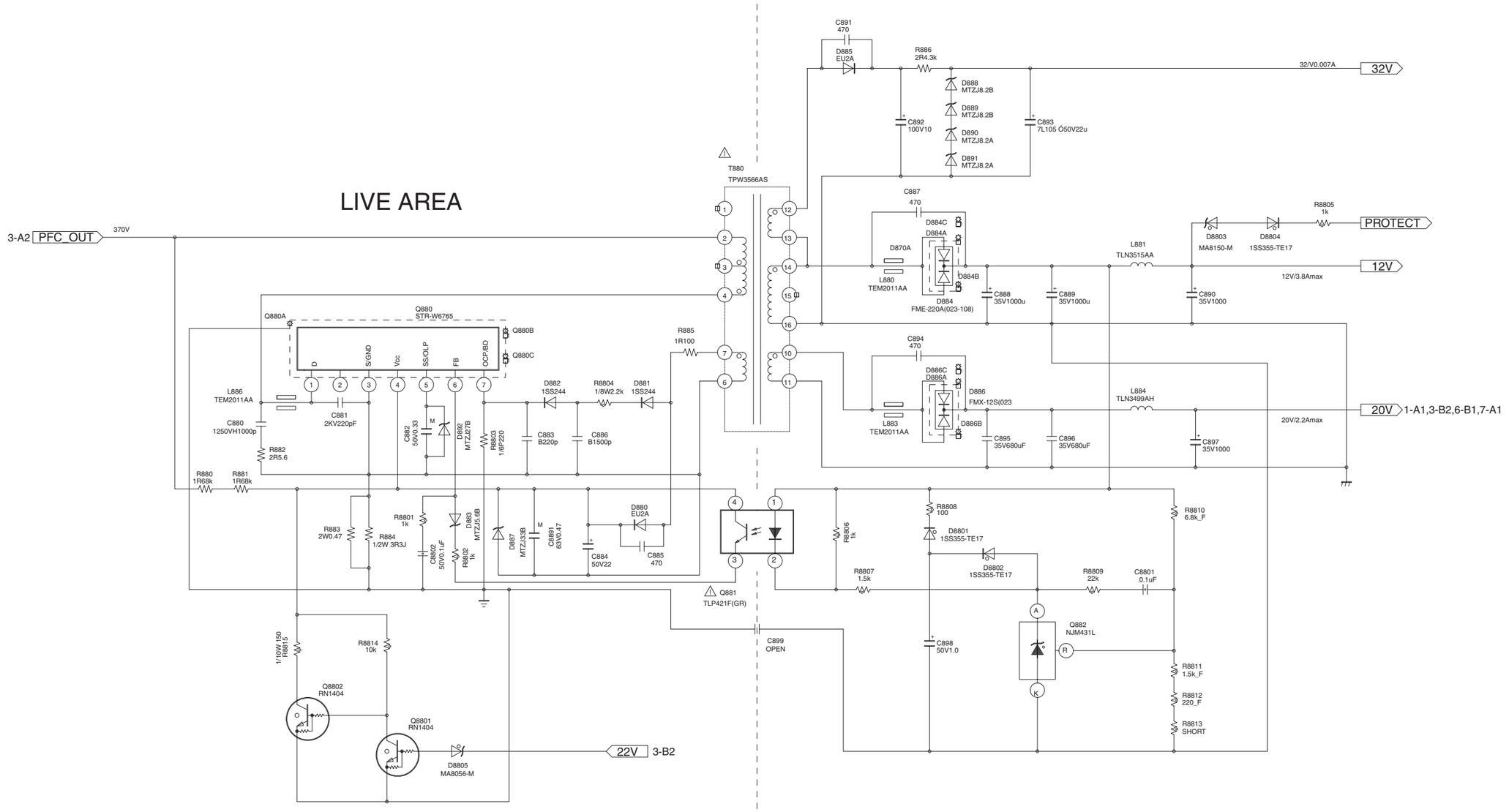
LIVE AREA

37WL58P
POWER (RELAY/RUSH PROTECTION)
SHEET-2/7

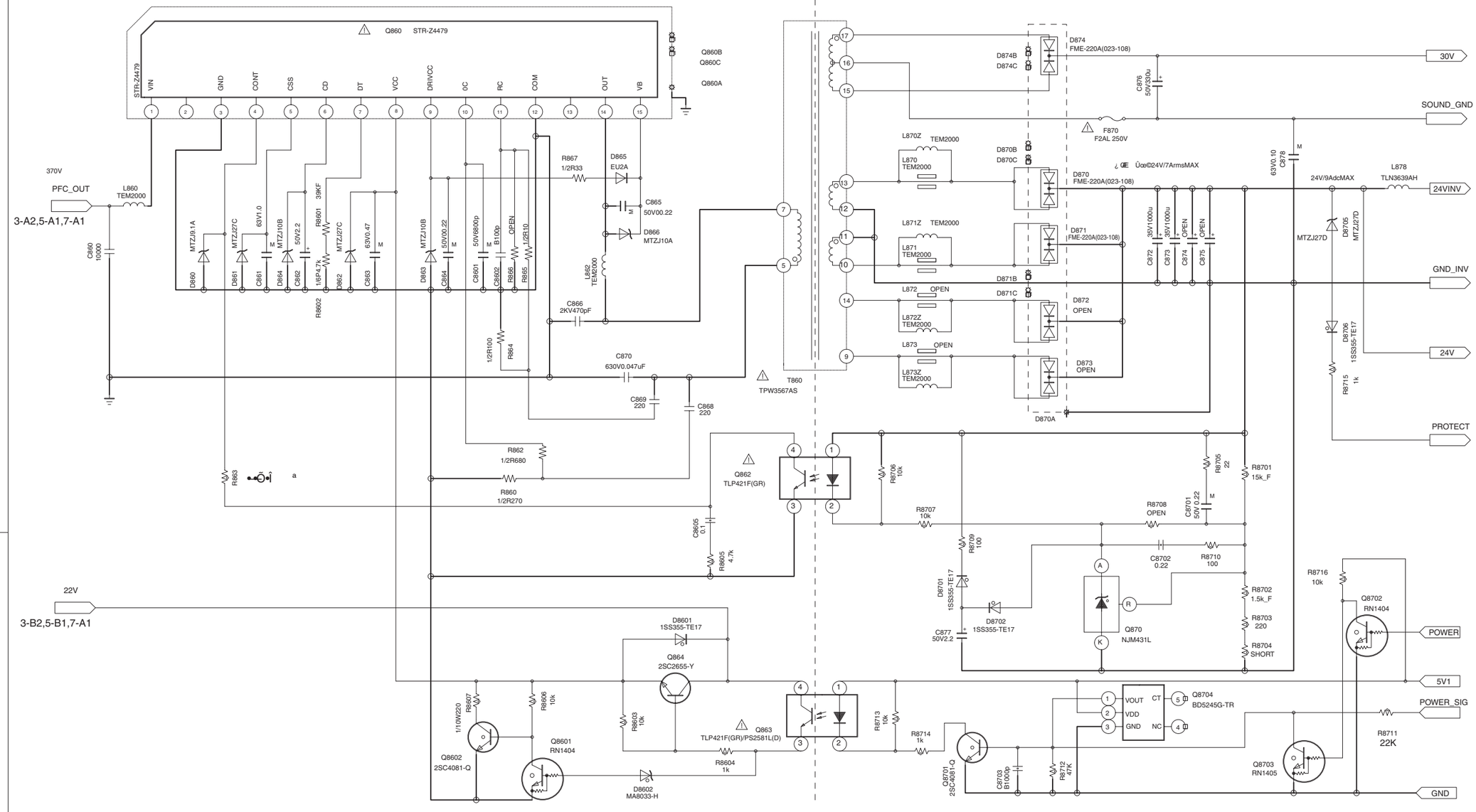

D823
RM3A LF014-102
T820
TPW3564AS
AC
LINE2
AC
NEUTRAL
D820
RBV-1506LFC
D820B
D820C
GREASE SI 1K
D820A
HEAT SINK
40mm
INR15G477K
D828
L821
TLN3641AF
GAP12
0.5mm
C824
450V1uF
L820
TLN3641AF
GAP11
0.5mm
L8211
TEM2014AH
L8212
TEM2014AH
C825
450V1uF
C827
2KV330pF
L824
TEM2014AH
D821
FMC-26UAR
D821B
L823
short
C826
2KV330pF
D822
FMX-G16S
D822B
L825
TEM2011AA
D821C
GREASE SI 1K
D822C
GREASE SI 1K
C820
450V/270uF
C822
500VB 0.01
R8240
47kxF
R8241
47kxF
R8242
47kxF
R8243
47kxF
R8244
47kxF
F820
F2AL 250V
PFC_OUT
5-A1
DC370V
C821
450V/82uF
GND1
L8241
OPEN
R825
OPEN
L8242
OPEN
D824
OPEN
Q820
SRX2039
Q820A
HEAT SINK
100mm
Q820C
GREASE SI 1K
Q820B
D
S
GND
ISNS
COMP
FB
Vcc
T822
TLN3640AH
R8245
47kxF
R8246
47kxF
R8247
47kxF
R8248
47kxF
R8249
SHORT
R8215
2.2k D
R8216
2.2k D
R8218
1.5k D
R8217
2.2
R823
R821
R820
KETSU
RK993DR15J
RK993DR15J
C8250
2KV470pF
R8210
RM73B1J471DD
C8251
500V 10pF
R826
1/2W1.2M
76004714C
VSENSE 5.1V
R8214
SHORT
D826
EU2A
R8213
2.2k
B1000p
C8213
D825
MTZJ33A
IC GND
R8212
1k D
C8210
CH 330p
C8240
OPEN
C8211
0.047
C8212
B25V0.1
C8241
50V22uF
D8273
MTZJ22A
D8274
MTZJ22A
D8272
MTZJ39D
D8271
1SS133
5-B1
22V
to STNDBY
25V
4-B1
Q821
TLP421F(GR)/PS2581L1
D8231
1SS355-TE17
R8232
4.7k
5V1
R8231
22K
Q8231
2SC4081-Q
R8233
4.7k
PFC Vcc on/off
POWER
Vcc on/off
2SC2655-Y
Q822
D8230
MA8240-L
R8230
3.3k
22.8-23.3-23.97
Q8230
RN1405
D8232
MA8056-M
2GND
LIVE AREA
37WL58P
POWER (PFC)
SHEET-3/7



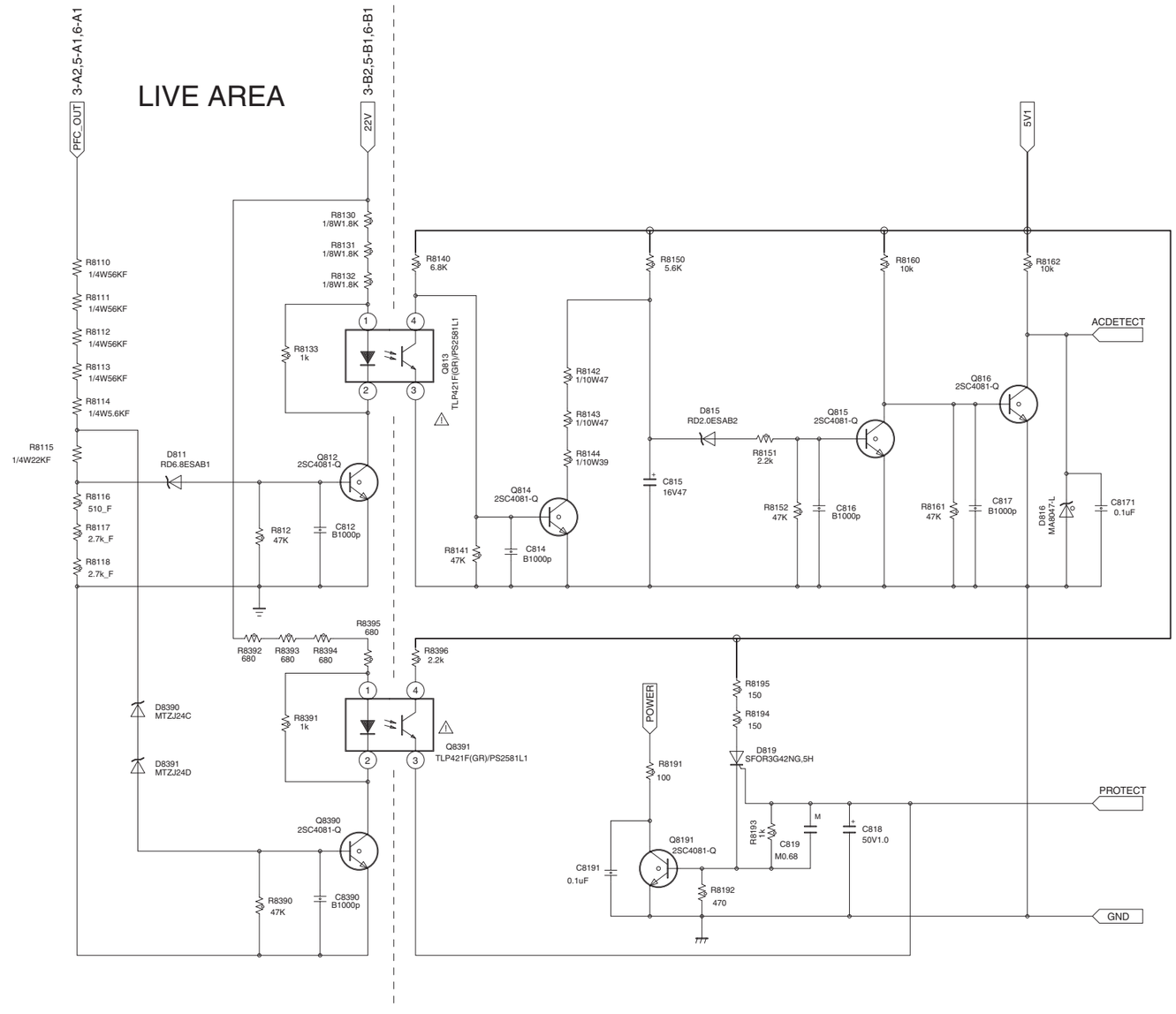
37WL58P
POWER (STANDBY POWER)
SHEET-4/7



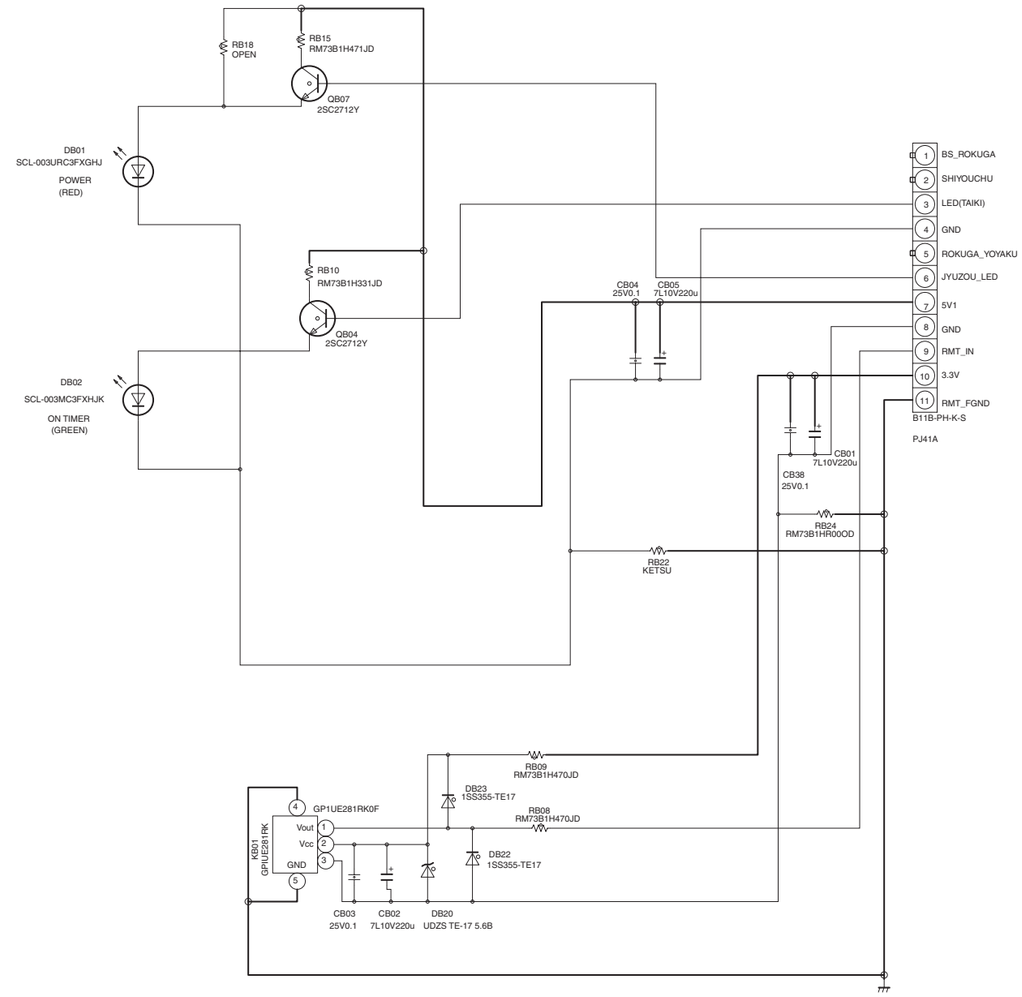
37WL58P
POWER (RCC POWER)
SHEET-5/7


Q860 STR-Z4479
STR-Z4479
VIN
GND
CONT
CSS
CD
DT
VCC
DRIVCC
OC
RC
COM
OUT
VB
Q860B
Q860C
Q860A
370V
PFC_OUT
L860 TEM2000
3-A2,5-A1,7-A1
C860 10000
D860 MTZJ6.1A
D861 MTZJ27C
C861 63V1.0
D864 MTZJ10B
C862 50V2.2
R8602 1/6P4.7K
R8601 39KF
D862 MTZJ27C
C863 63V0.47
D863 MTZJ10B
C864 50V00.22
C8601 50V6800p
C8602 B100p
R865 OPEN
R855 1/2R10
R867 1/2R33
D865 EU2A
C865 50V00.22
D866 MTZJ10A
L862 TEM2000
C866 2KV470pF
R864 1/2R100
C870 630V0.047uF
C869 220
C868 220
T860 TPW3567AS
R862 1/2R680
R860 1/2R270
R863
a
C8605 0.1
R8605 4.7k
Q862 TLP421F(GR)
R8706 10k
R8707 10k
R8709 100
D8701 1SS355-TE17
C877 50V2.2
D8702 1SS355-TE17
Q870 NJM431L
R8708 OPEN
C8701 50V0.22
R8705 22
R8701 15k_F
C8702 0.22
R8710 100
R8702 1.5k_F
R8703 220
R8704 SHORT
D874 FME-220A(023-108)
D874B
D874C
C876 50V3300u
F870 F2AL 250V
L870Z TEM2000
L870 TEM2000
D870B
D870C
D870 FME-220A(023-108)
L871Z TEM2000
L871 TEM2000
D871 FME-220A(023-108)
D871B
D871C
L872 OPEN
L872Z TEM2000
D872 OPEN
L873 OPEN
L873Z TEM2000
D873 OPEN
D870A
C872 35V1000u
C873 35V1000u
C874 OPEN
C875 OPEN
63V0.10 C878
L878 TLN3639AH
24V/9AdcMAX
MTZJ27D
D8705 MTZJ27D
D8706 1SS355-TE17
R8715 1k
30V
SOUND_GND
24VINV
GND_INV
1-A1
24V
PROTECT
22V
3-B2,5-B1,7-A1
D8601 1SS355-TE17
Q864 2SC2655-Y
R8607 1/10W220
R8606 10k
R8603 10k
Q8602 2SC4081-Q
Q8601 RN1404
D8602 MA8033-H
Q863 TLP421F(GR)/PS2581L(D)
R8604 1k
R8713 10k
R8714 1k
Q8701 2SC4081-Q
C8703 B1000p
R8712 47K
Q8704 BD5245G-TR
VOUT
VDD
GND
CT
NC
Q8703 RN1405
R8716 10k
Q8702 RN1404
POWER
5V1
POWER_SIG
R8711 22K
GND
LIVE AREA
37WL58P
POWER (RESONANCE POWER)
SHEET-6/7

(10/65)



37WL58P
POWER (PROTECT/ AC DETECT)
SHEET-7/7



37WL58P
LED RMT

TO SIGNAL BOARD

3P

PJ21A
B3B-PH-K-S

50P-FFC

PJ22A
9637S-50ATL FFC/FPC SOCKET

50P-FFC

PJ60A
9637S-50ATL FFC/FPC SOCKET

19P-FFC

PV99B

PC/HDMI(A)

19FMN-BTK-A

5P

TO LED_HP BOARD

P602A
B5B-PH-K-S

13P

TO LOWB BOARD

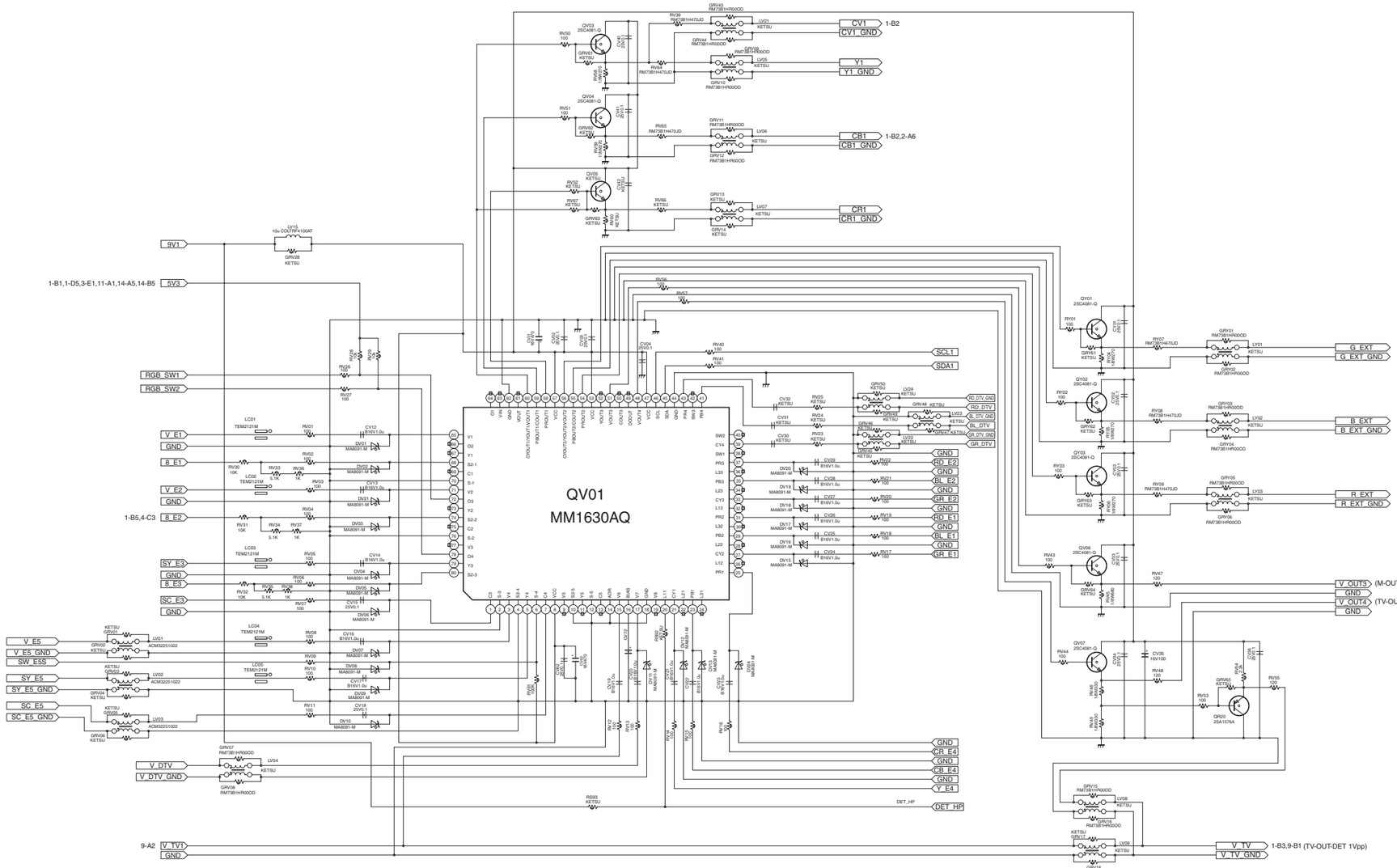
P803B
13P_2.5mm_1.5A_Beige

11P

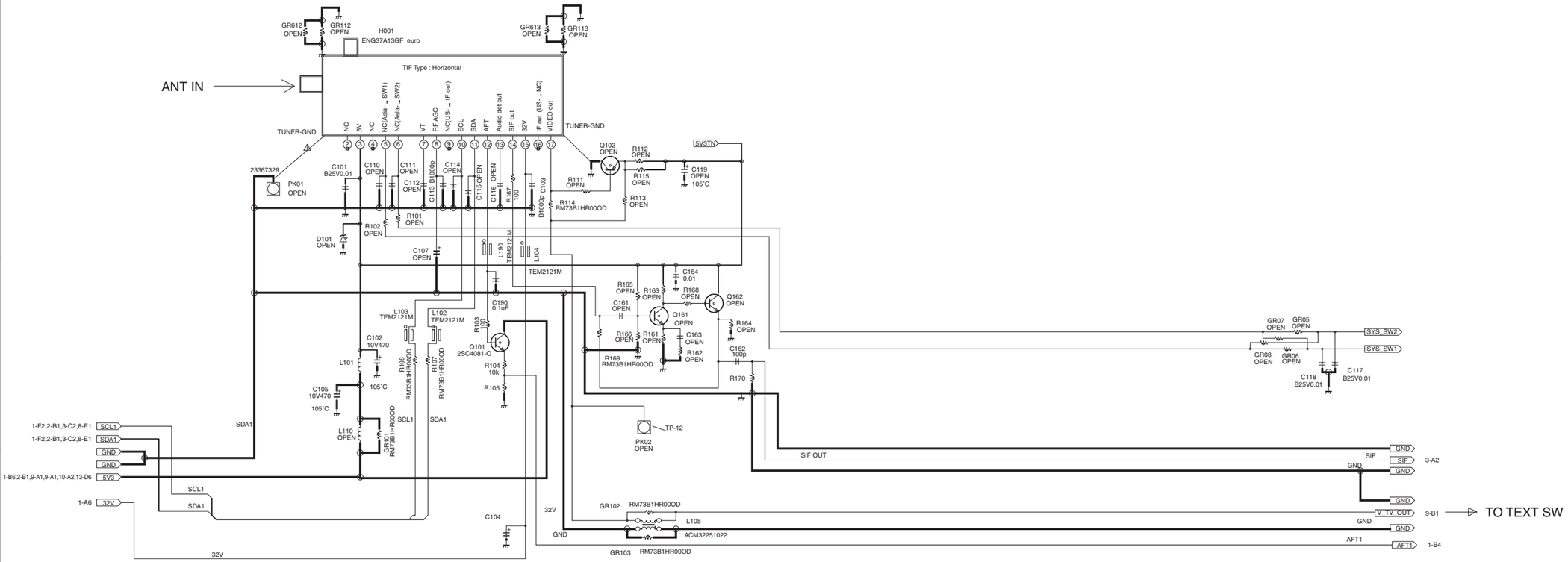
FRONT-AV(E5)

PV25A
B12B-PH-K-S

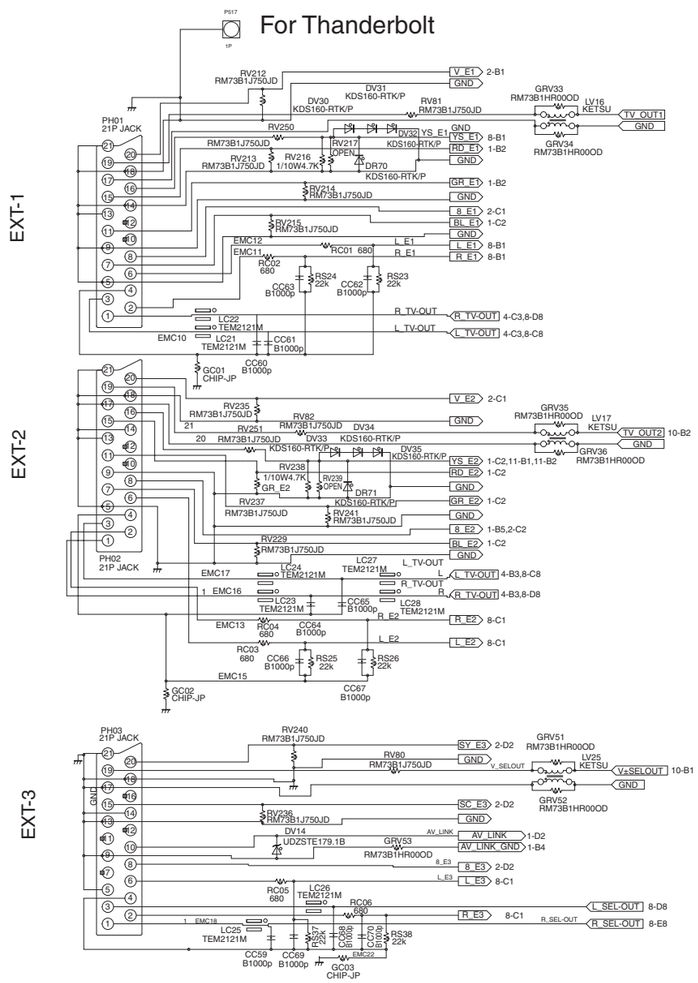
37WL58P
TN_AV (CONNECTOR)
SHEET-1/11

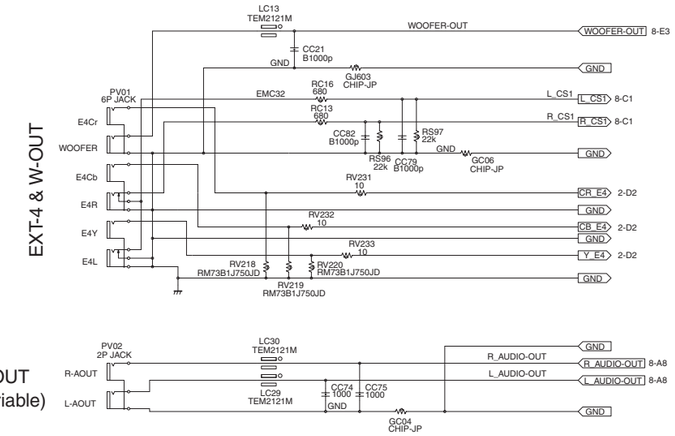


37WL58P
TN_AV (VIDEO-SW)
SHEET-2/11

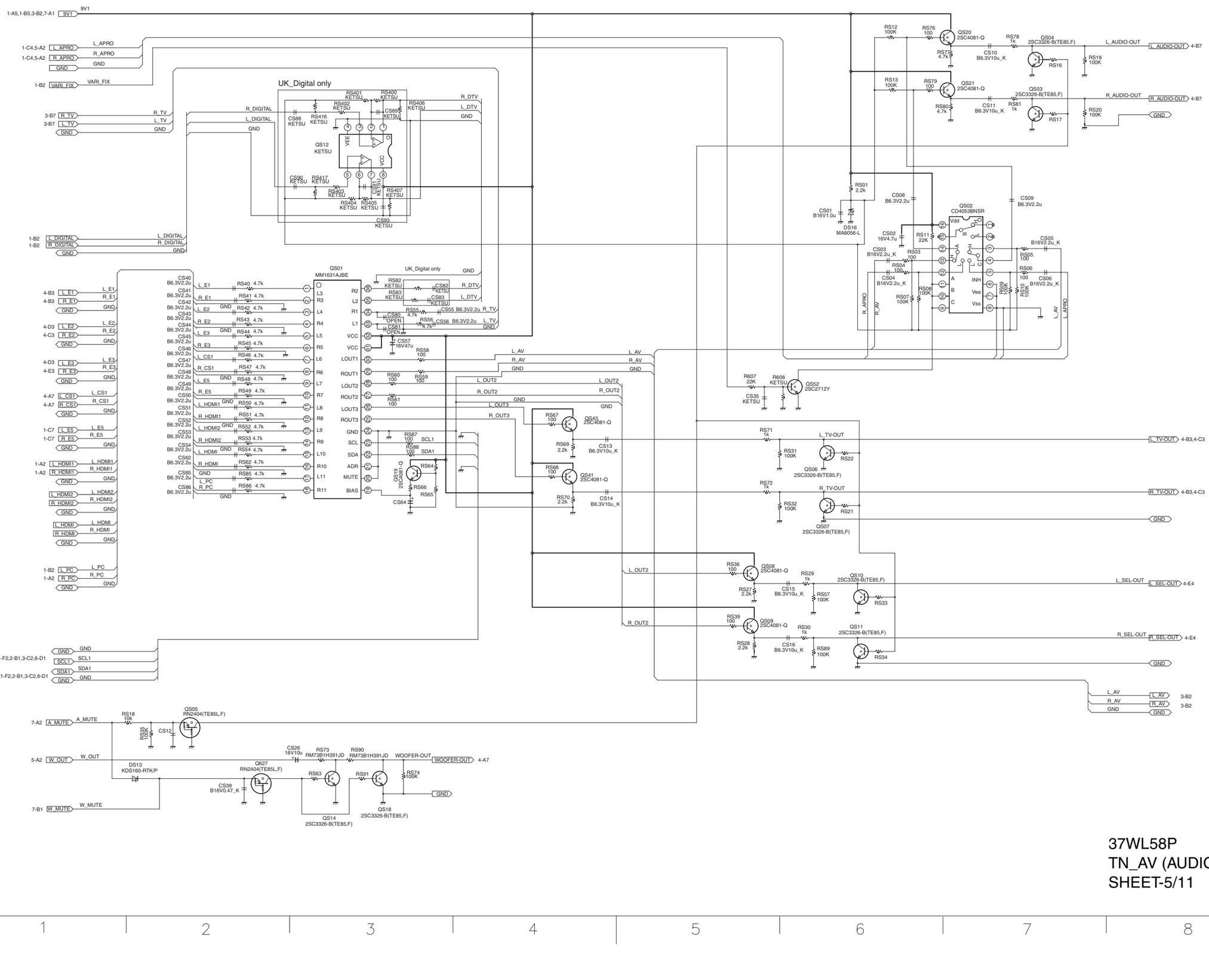


37WL58P
TN_AV (TIF)
SHEET-3/11



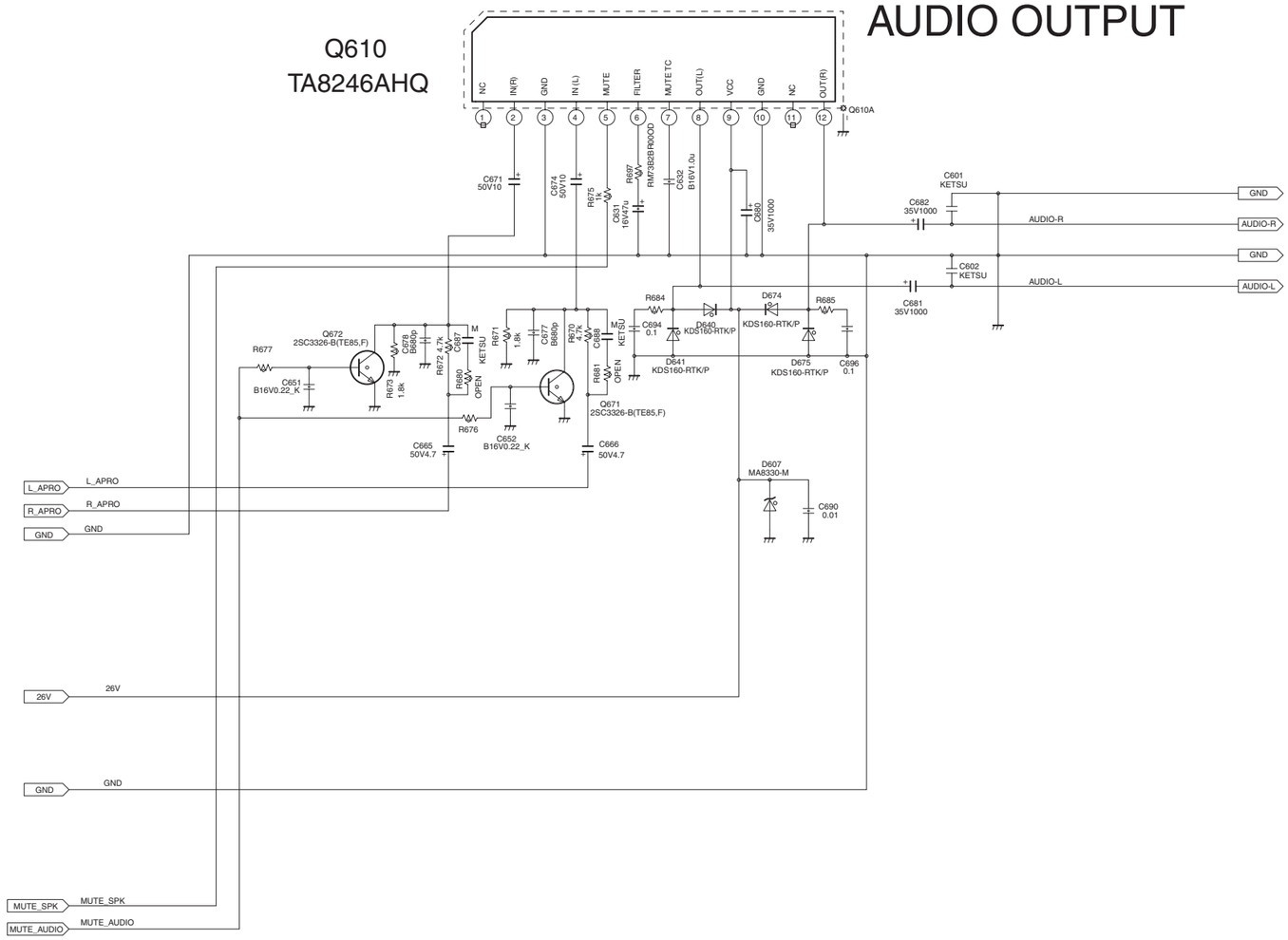


37WL58P
TN_AV (AV-TERMINAL)
SHEET-4/11

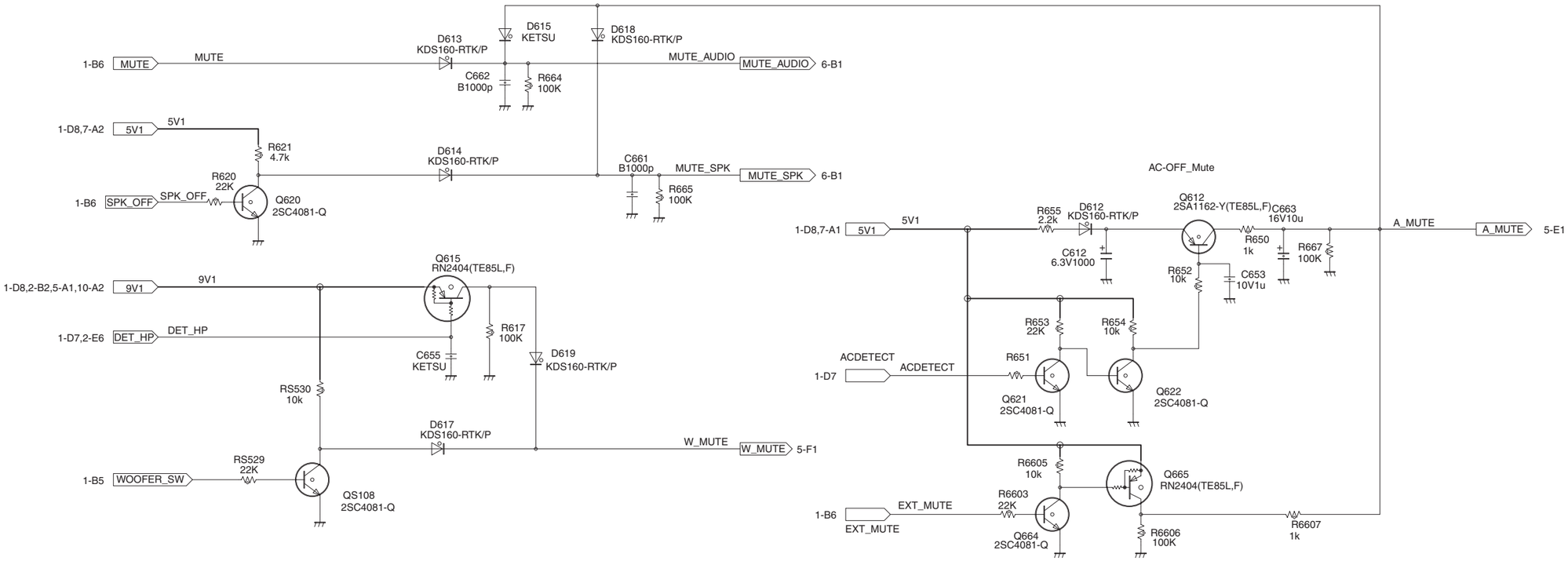

UK_Digital only
QS01
MM1631AJBE
QS02
CD4053BNSR
QS04
2SC3326-B(TE85,F)
QS03
2SC3326-B(TE85,F)
QS20
2SC4081-Q
QS21
2SC4081-Q
QS52
2SC2712Y
QS43
2SC4081-Q
QS41
2SC4081-Q
QS06
2SC3326-B(TE85,F)
QS07
2SC3326-B(TE85,F)
QS08
2SC4081-Q
QS09
2SC4081-Q
QS10
2SC3326-B(TE85,F)
QS11
2SC3326-B(TE85,F)
QS05
RN2404(TE85L,F)
Q627
RN2404(TE85L,F)
QS14
2SC3326-B(TE85,F)
QS18
2SC3326-B(TE85,F)
QS12
KETSU
QS19
2SC4081-Q
DS16
MA8056-L
DS13
KDS160-RTK/P
9V1
L_APRO
R_APRO
GND
VARI_FIX
R_TV
L_TV
L_DIGITAL
R_DIGITAL
R_DTV
L_DTV
L_E1
R_E1
L_E2
R_E2
L_E3
R_E3
L_CS1
R_CS1
L_E5
R_E5
L_HDMI1
R_HDMI1
L_HDMI2
R_HDMI2
L_HDMI
R_HDMI
L_PC
R_PC
L_AV
R_AV
L_OUT2
R_OUT2
L_OUT3
R_OUT3
SCL1
SDA1
A_MUTE
W_OUT
W_MUTE
L_TV-OUT
R_TV-OUT
L_AUDIO-OUT
R_AUDIO-OUT
L_SEL-OUT
R_SEL-OUT
WOOFER-OUT
37WL58P
TN_AV (AUDIO-SW)
SHEET-5/11

(17/65)

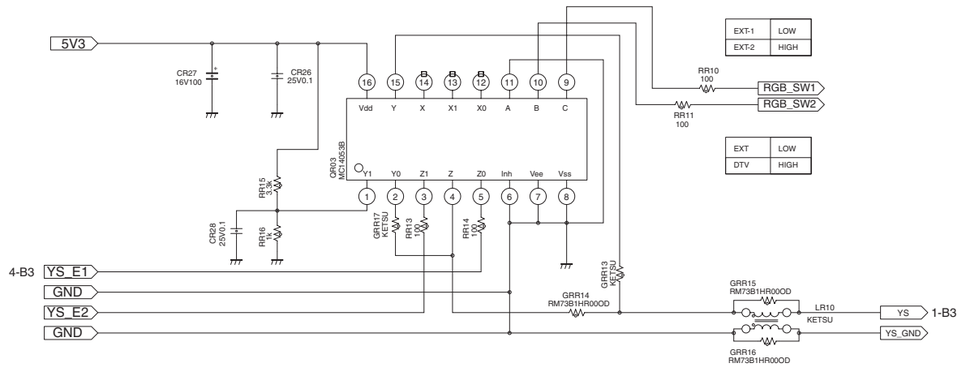
AUDIO OUTPUT



37WL58P
TN_AV (A-OUT)
SHEET-6/11

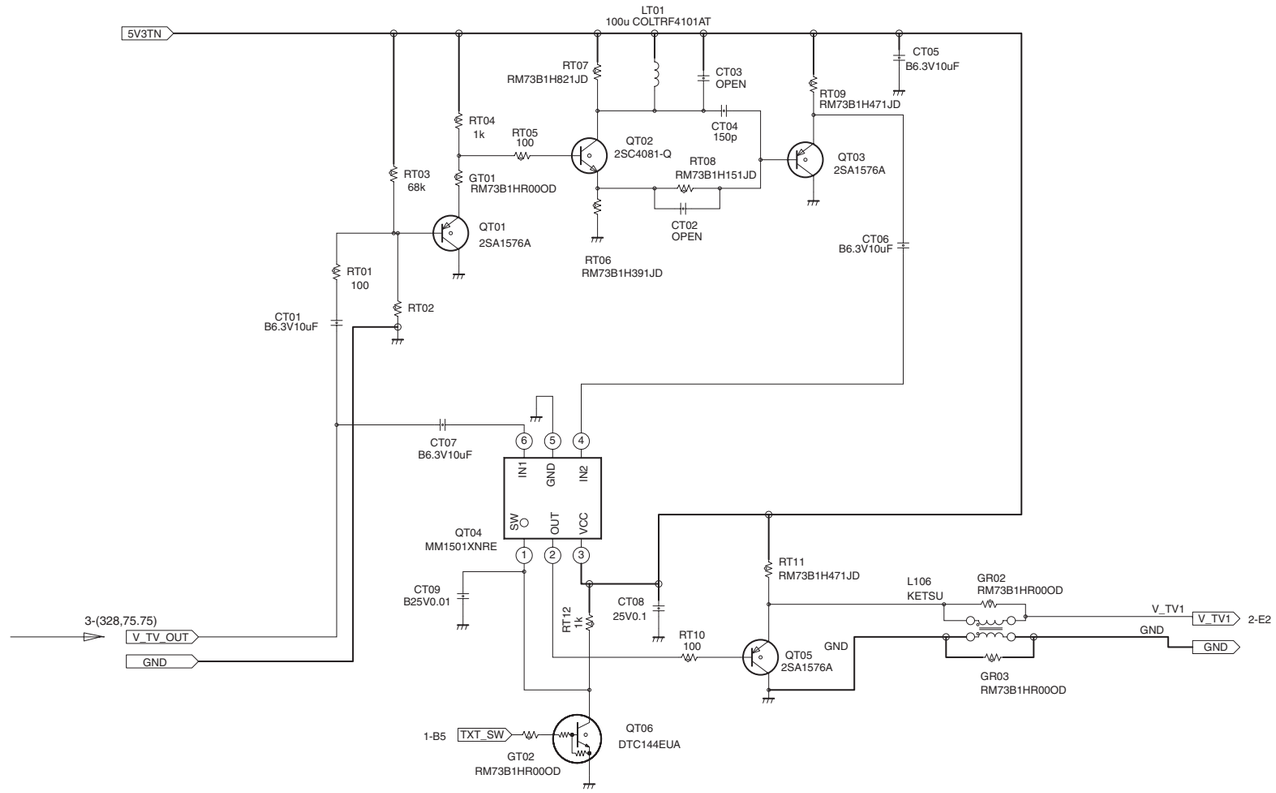


37WL58P
TN_AV (AUDIO MUTE)
SHEET-7/11

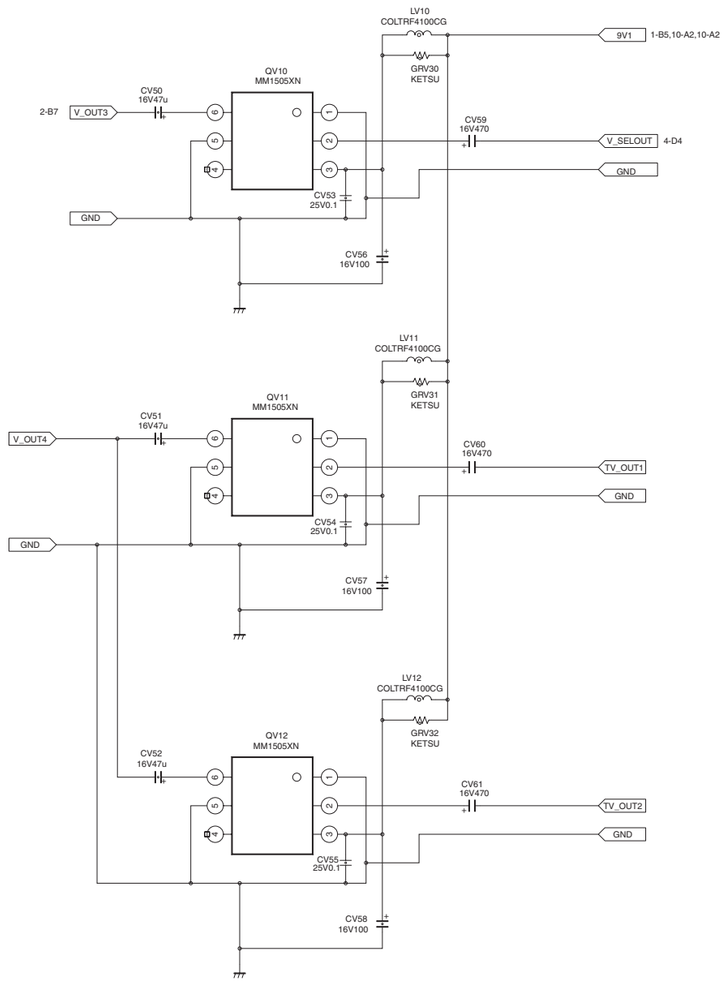


37WL58P
TN_AV (RGB_SW)
SHEET-8/11

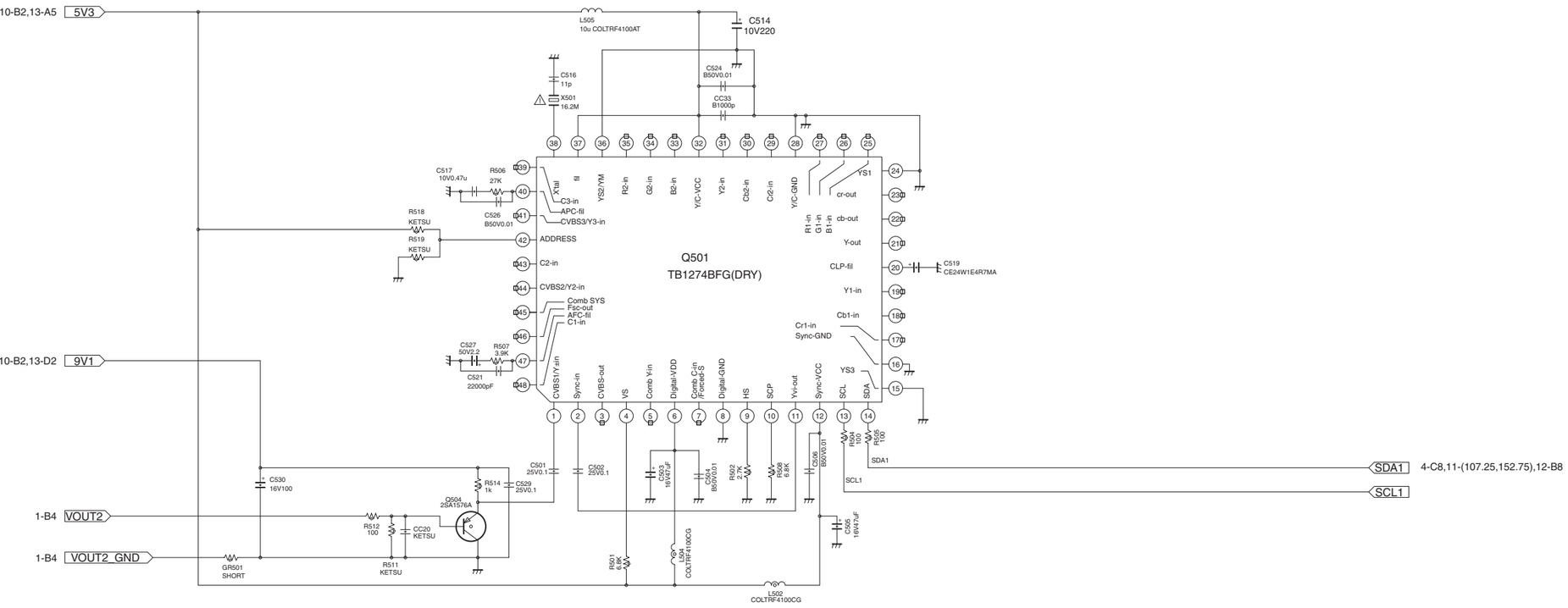
FROM TIF



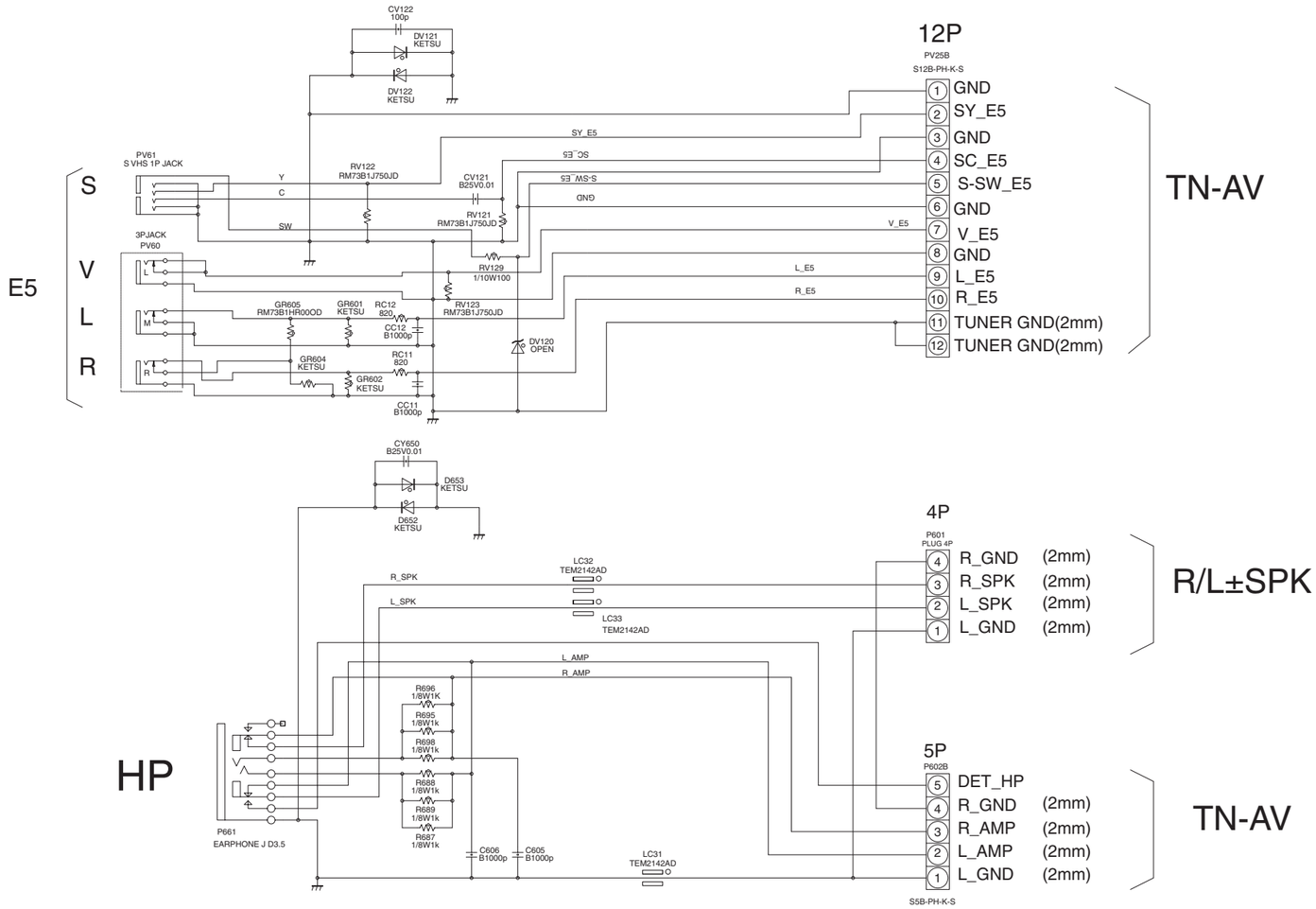
37WL58P
TN_AV (TEXT SW)
SHEET-9/11



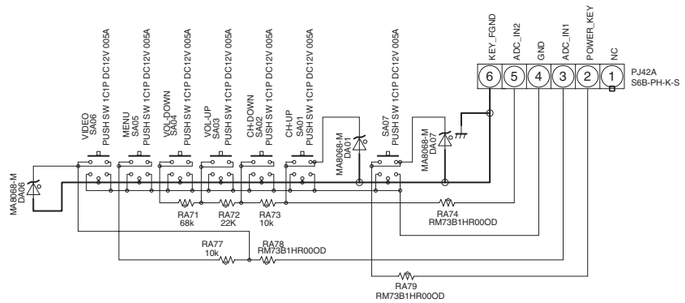
37WL58P
TN_AV (TV-OUT)
SHEET-10/11



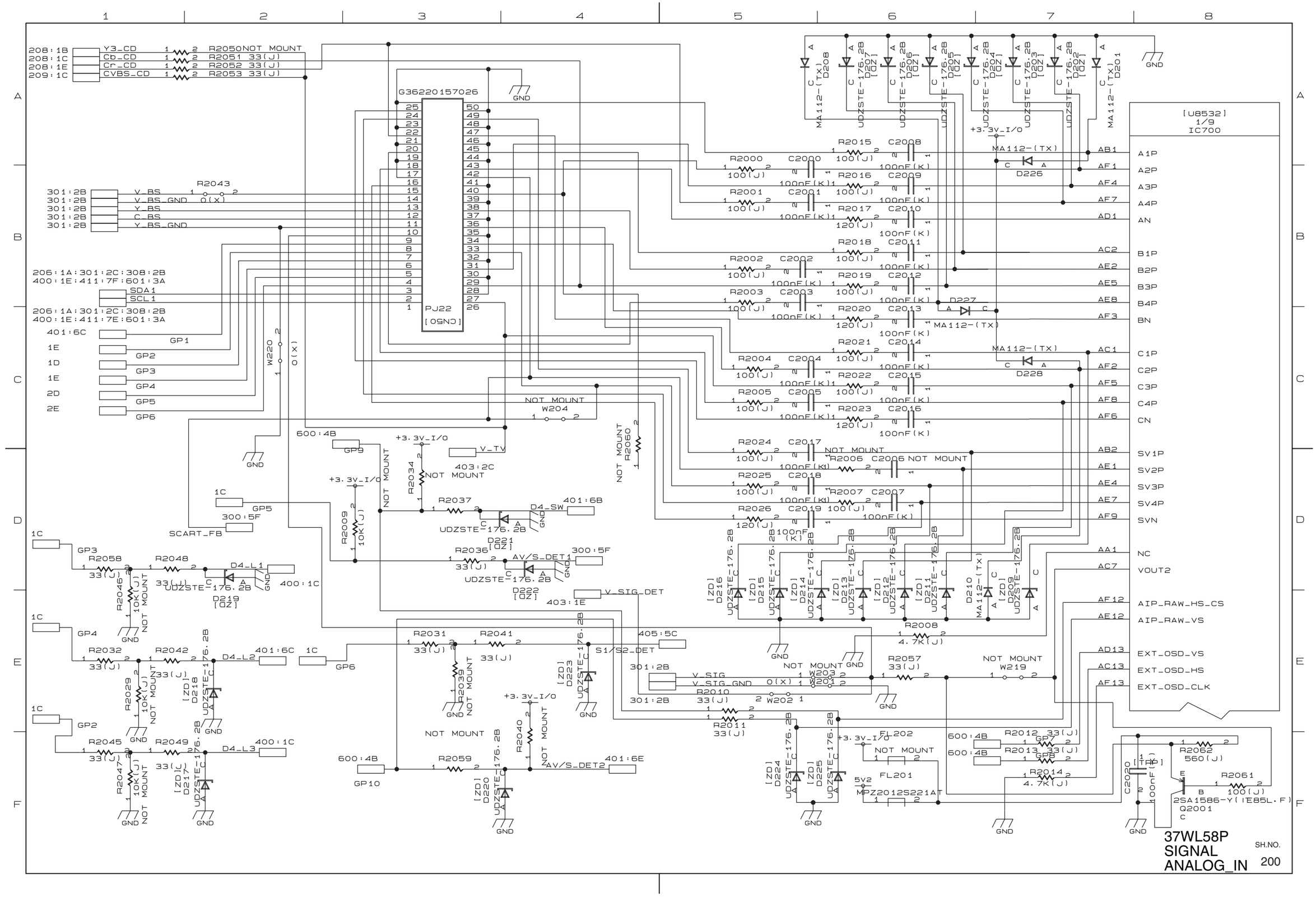
37WL58P
TN_AV (VIDEO CHROMA)
SHEET-11/11

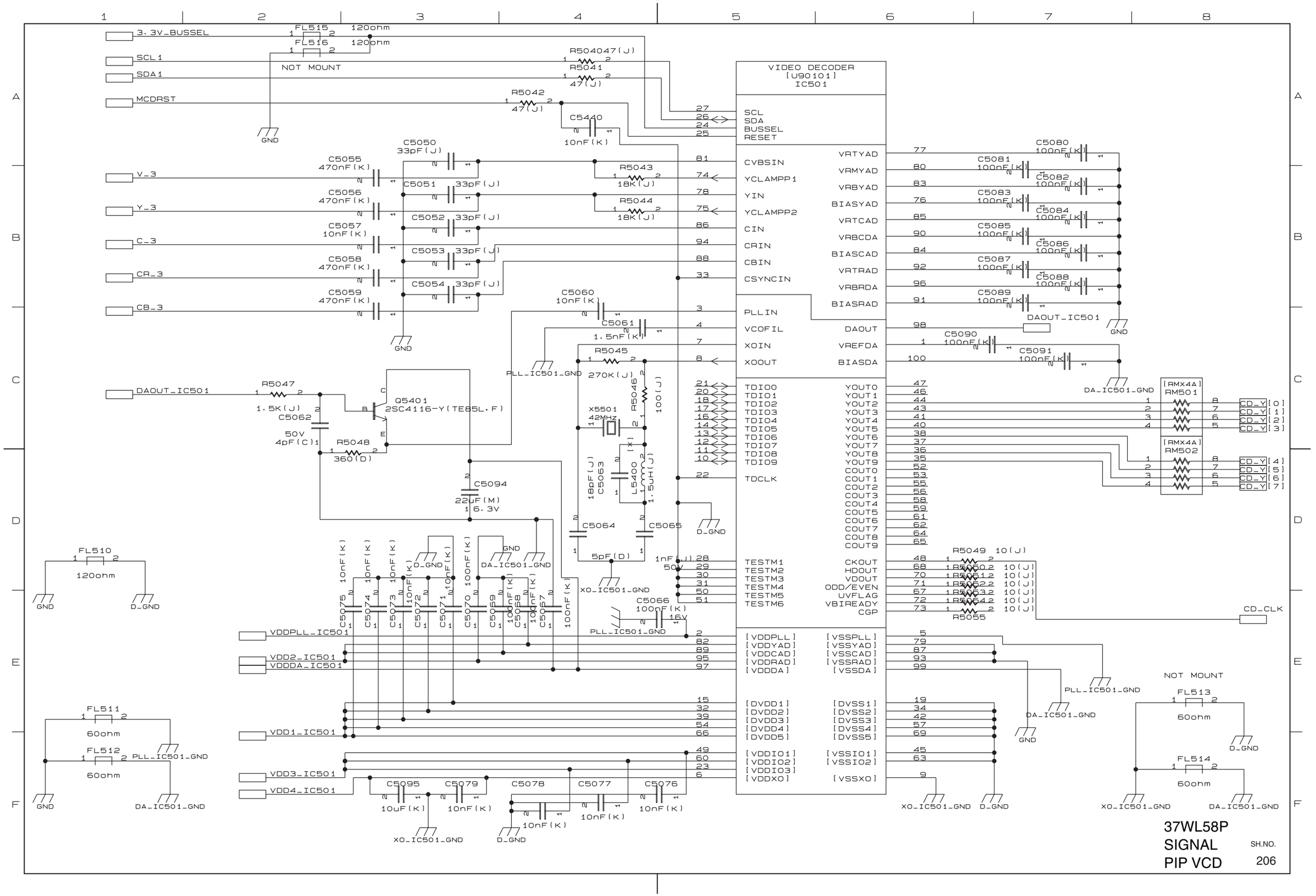


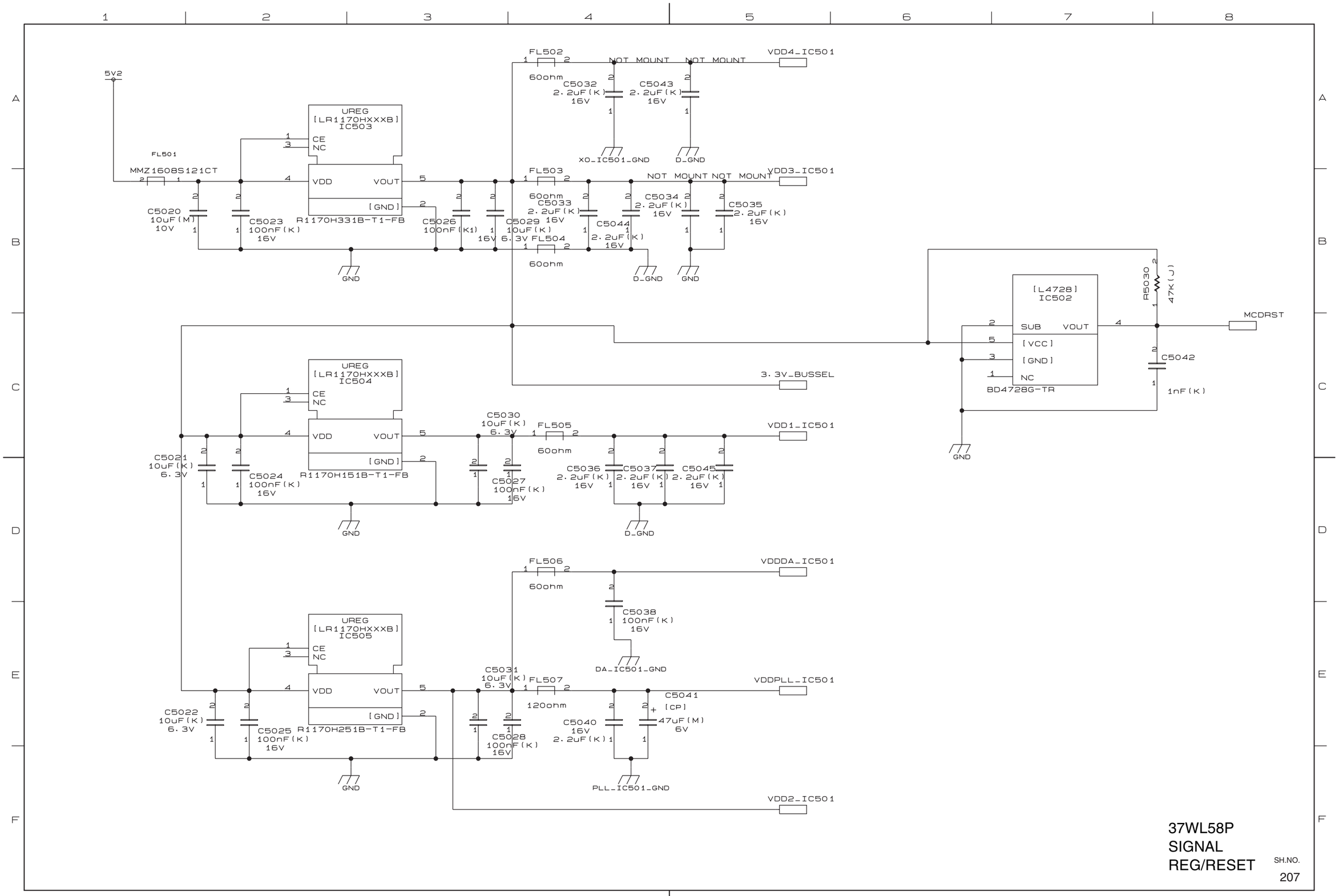
37WL58P
FRONT-AV


KEY_FGND
ADC_IN2
GND
ADC_IN1
POWER_KEY
NC
PJ42A
S6B-PH-K-S
VIDEO
SA06
MENU
SA05
VOL-DOWN
SA04
VOL-UP
SA03
CH-DOWN
SA02
CH-UP
SA01
SA07
PUSH SW 1C1P DC12V 005A
MA8068-M
DA06
DA07
RA71
68k
RA72
22K
RA73
10k
RA74
RM73B1HR00OD
RA77
10k
RA78
RM73B1HR00OD
RA79
RM73B1HR00OD

37WL58P
KEY

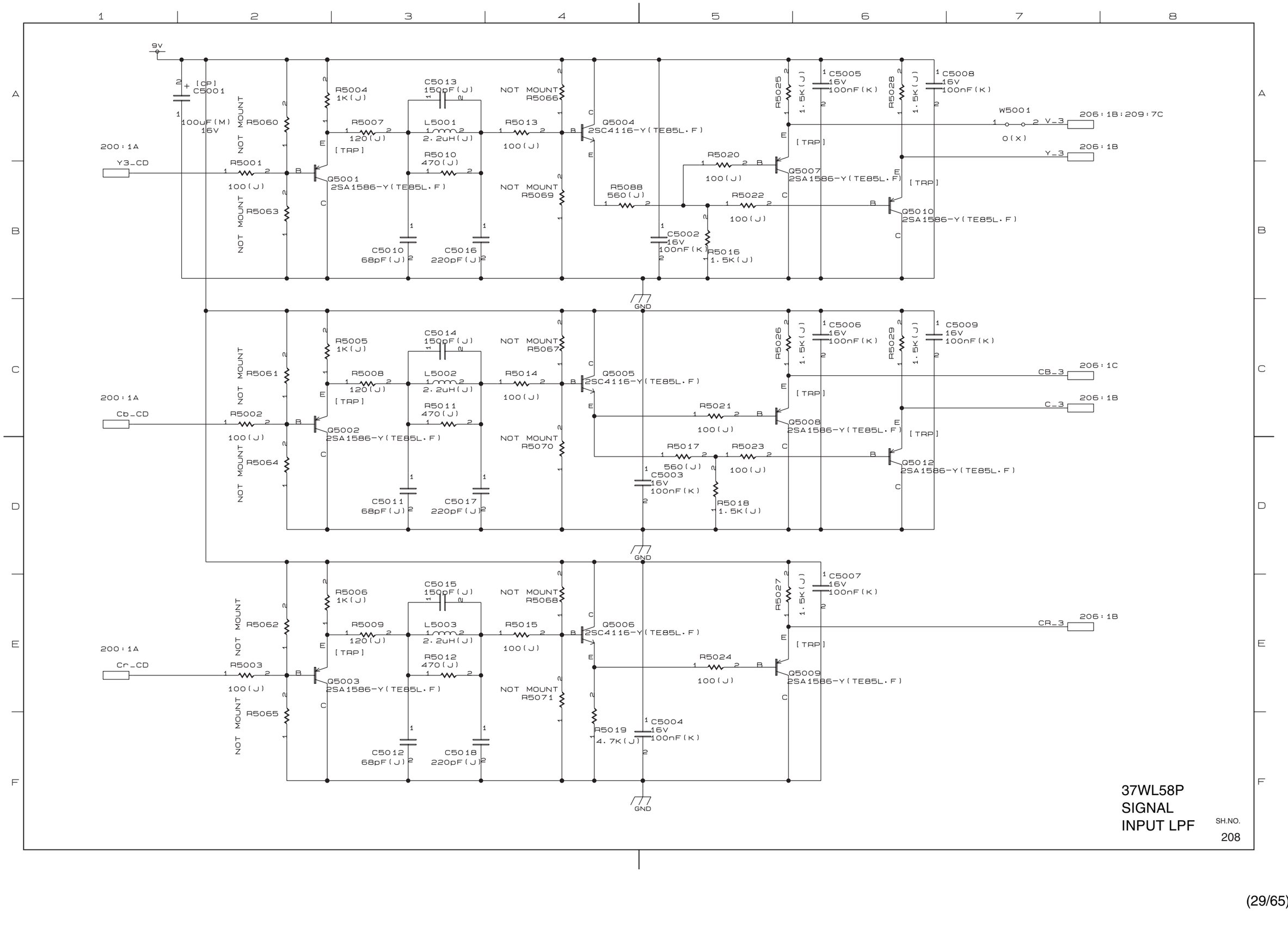

208:1B
208:1C
208:1E
209:1C
Y3_CD
CB_CD
CR_CD
CVBS_CD
R2050 NOT MOUNT
R2051 33(J)
R2052 33(J)
R2053 33(J)
G36220157026
PJ22
[CN50]
GND
R2043
301:2B
V_BS
V_BS_GND
Y_BS
C_BS
Y_BS_GND
0(X)
206:1A:301:2C:308:2B
400:1E:411:7F:601:3A
SDA1
SCL1
206:1A:301:2C:308:2B
400:1E:411:7E:601:3A
401:6C
GP1
1E
GP2
1D
GP3
1E
GP4
2D
GP5
2E
GP6
W220
NOT MOUNT
W204
600:4B
GP9
+3.3V_I/O
V_TV
403:2C
R2034
NOT MOUNT
1C
GP5
300:5F
SCART_FB
R2009
10K(J)
R2037
D4_SW
401:6B
UDZSTE-176.2B
D221
[DZ]
R2036
33(J)
AV/S_DET1
300:5F
D222
[DZ]
V_SIG_DET
403:1E
GP3
R2058
R2048
D4_L1
400:1C
D219
[DZ]
R2046
GP4
R2032
R2042
D4_L2
401:6C
R2029
R2033
D218
GP2
R2045
R2049
D4_L3
400:1C
R2047
R2031
R2041
405:5C
S1/S2_DET
R2039
D223
R2040
600:4B
GP10
R2059
AV/S_DET2
401:6E
D220
R2060
R2000
R2001
R2002
R2003
R2004
R2005
R2015
R2016
R2017
R2018
R2019
R2020
R2021
R2022
R2023
R2024
R2025
R2026
100(J)
120(J)
C2000
C2001
C2002
C2003
C2004
C2005
C2008
C2009
C2010
C2011
C2012
C2013
C2014
C2015
C2016
C2017
C2018
C2019
100nF(K)
NOT MOUNT
R2006
C2006
R2007
C2007
100nF
D208
D207
D206
D205
D204
D203
D202
D201
MA112-(TX)
UDZSTE-176.2B
[ZD]
D216
D215
D214
D213
D212
D211
D210
D209
R2008
4.7K(J)
D226
D227
D228
[U8532]
1/9
IC700
A1P
A2P
A3P
A4P
AN
B1P
B2P
B3P
B4P
BN
C1P
C2P
C3P
C4P
CN
SV1P
SV2P
SV3P
SV4P
SVN
NC
VOUT2
AIP_RAW_HS_CS
AIP_RAW_VS
EXT_OSD_VS
EXT_OSD_HS
EXT_OSD_CLK
AB1
AF1
AF4
AF7
AD1
AC2
AE2
AE5
AE8
AF3
AC1
AF2
AF5
AF8
AF6
AB2
AE1
AE4
AE7
AF9
AA1
AC7
AF12
AE12
AD13
AC13
AF13
R2057
33(J)
NOT MOUNT
W219
W203
W201
W202
V_SIG
V_SIG_GND
R2010
R2011
R2012
R2013
R2014
R2061
560(J)
R2062
FL202
FL201
5V2
MPZ2012S221AT
600:4B
GP7
GP8
C2020
[TP(E)]
100nF(K)
2SA1586-Y(IE85L.F)
Q2001
37WL58P
SIGNAL
ANALOG_IN
SH.NO.
200

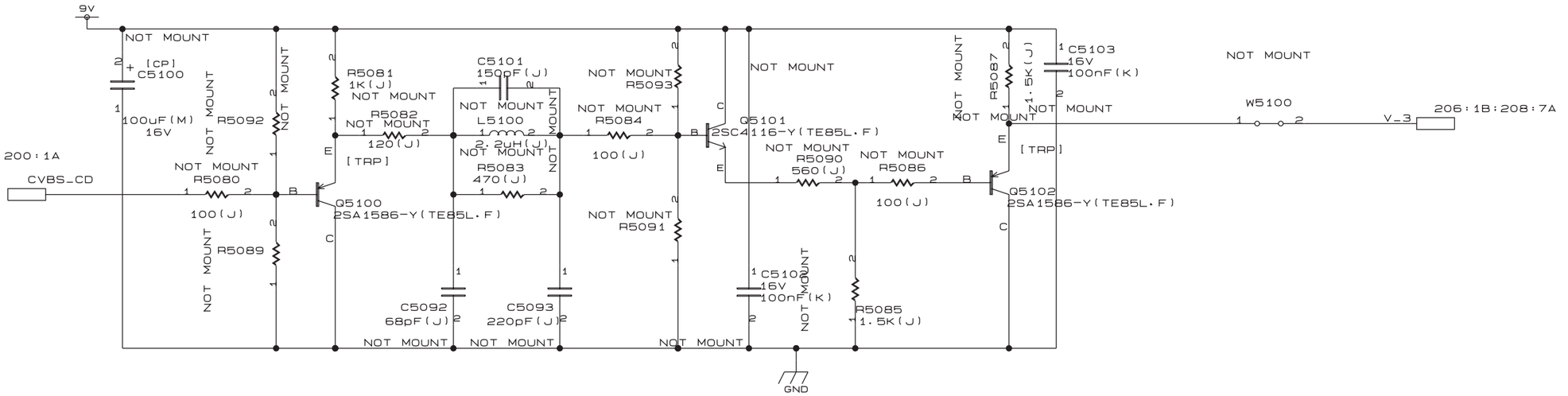

VIDEO DECODER
[U90101]
IC501
3.3V_BUSSEL
SCL1
SDA1
MCDRST
FL515 120ohm
FL516 120ohm
NOT MOUNT
R504047(J)
R5041 47(J)
R5042 47(J)
C5440 10nF(K)
SCL
SDA
BUSSEL
RESET
V_3
Y_3
C_3
CR_3
CB_3
C5055 470nF(K)
C5056 470nF(K)
C5057 10nF(K)
C5058 470nF(K)
C5059 470nF(K)
C5050 33pF(J)
C5051 33pF(J)
C5052 33pF(J)
C5053 33pF(J)
C5054 33pF(J)
R5043 18K(J)
R5044 18K(J)
CVBSIN
YCLAMPP1
YIN
YCLAMPP2
CIN
CRIN
CBIN
CSYNCIN
C5060 10nF(K)
C5061 1.5nF(K)
R5045 270K(J)
PLL_IC501_GND
PLLIN
VCOFIL
XOIN
XOOUT
DAOUT_IC501
R5047 1.5K(J)
C5062 50V 4pF(C)
R5048 360(D)
Q5401 2SC4116-Y(TE85L.F)
X5501 42MHz
R5046 100(J)
C5063 18pF(J)
L5400 1.5uH(J)
C5064
C5065 5pF(D)
C5094 22uF(M) 16.3V
D_GND
XO_IC501_GND
C5066 100nF(K) 16V
PLL_IC501_GND
TDIO0
TDIO1
TDIO2
TDIO3
TDIO4
TDIO5
TDIO6
TDIO7
TDIO8
TDIO9
TDCLK
TESTM1
TESTM2
TESTM3
TESTM4
TESTM5
TESTM6
VRTYAD
VRMYAD
VRBYAD
BIASYAD
VRTCAD
VRBCDA
BIASCAD
VRTRAD
VRBRDA
BIASRAD
DAOUT
VREFDA
BIASDA
YOUT0
YOUT1
YOUT2
YOUT3
YOUT4
YOUT5
YOUT6
YOUT7
YOUT8
YOUT9
COUT0
COUT1
COUT2
COUT3
COUT4
COUT5
COUT6
COUT7
COUT8
COUT9
CKOUT
HDOUT
VDOUT
ODD/EVEN
UVFLAG
VBIREADY
CGP
C5080 100nF(K)
C5081 100nF(K)
C5082 100nF(K)
C5083 100nF(K)
C5084 100nF(K)
C5085 100nF(K)
C5086 100nF(K)
C5087 100nF(K)
C5088 100nF(K)
C5089 100nF(K)
DAOUT_IC501
C5090 100nF(K)
C5091 100nF(K)
DA_IC501_GND
[RMX4A] RM501
[RMX4A] RM502
CD_Y[0]
CD_Y[1]
CD_Y[2]
CD_Y[3]
CD_Y[4]
CD_Y[5]
CD_Y[6]
CD_Y[7]
R5049 10(J)
R5050 10(J)
R5051 10(J)
R5052 10(J)
R5053 10(J)
R5054 10(J)
R5055
CD_CLK
FL510 120ohm
FL511 60ohm
FL512 60ohm
FL513 60ohm
FL514 60ohm
C5075 10nF(K)
C5074 10nF(K)
C5073 10nF(K)
C5072 10nF(K)
C5071 10nF(K)
C5070 10nF(K)
C5069 100nF(K)
C5068 100nF(K)
C5067 100nF(K)
C5095 10uF(K)
C5079 10nF(K)
C5078 10nF(K)
C5077 10nF(K)
C5076 10nF(K)
VDDPLL_IC501
VDD2_IC501
VDDDA_IC501
VDD1_IC501
VDD3_IC501
VDD4_IC501
[VDDPLL]
[VDDYAD]
[VDDCAD]
[VDDRAD]
[VDDDA]
[VSSPLL]
[VSSYAD]
[VSSCAD]
[VSSRAD]
[VSSDA]
[DVDD1]
[DVDD2]
[DVDD3]
[DVDD4]
[DVDD5]
[DVSS1]
[DVSS2]
[DVSS3]
[DVSS4]
[DVSS5]
[VDDIO1]
[VDDIO2]
[VDDIO3]
[VDDXO]
[VSSIO1]
[VSSIO2]
[VSSXO]
GND
D_GND
DA_IC501_GND
PLL_IC501_GND
XO_IC501_GND
NOT MOUNT
37WL58P
SIGNAL
PIP VCD
SH.NO.
206



37WL58P
SIGNAL
REG/RESET

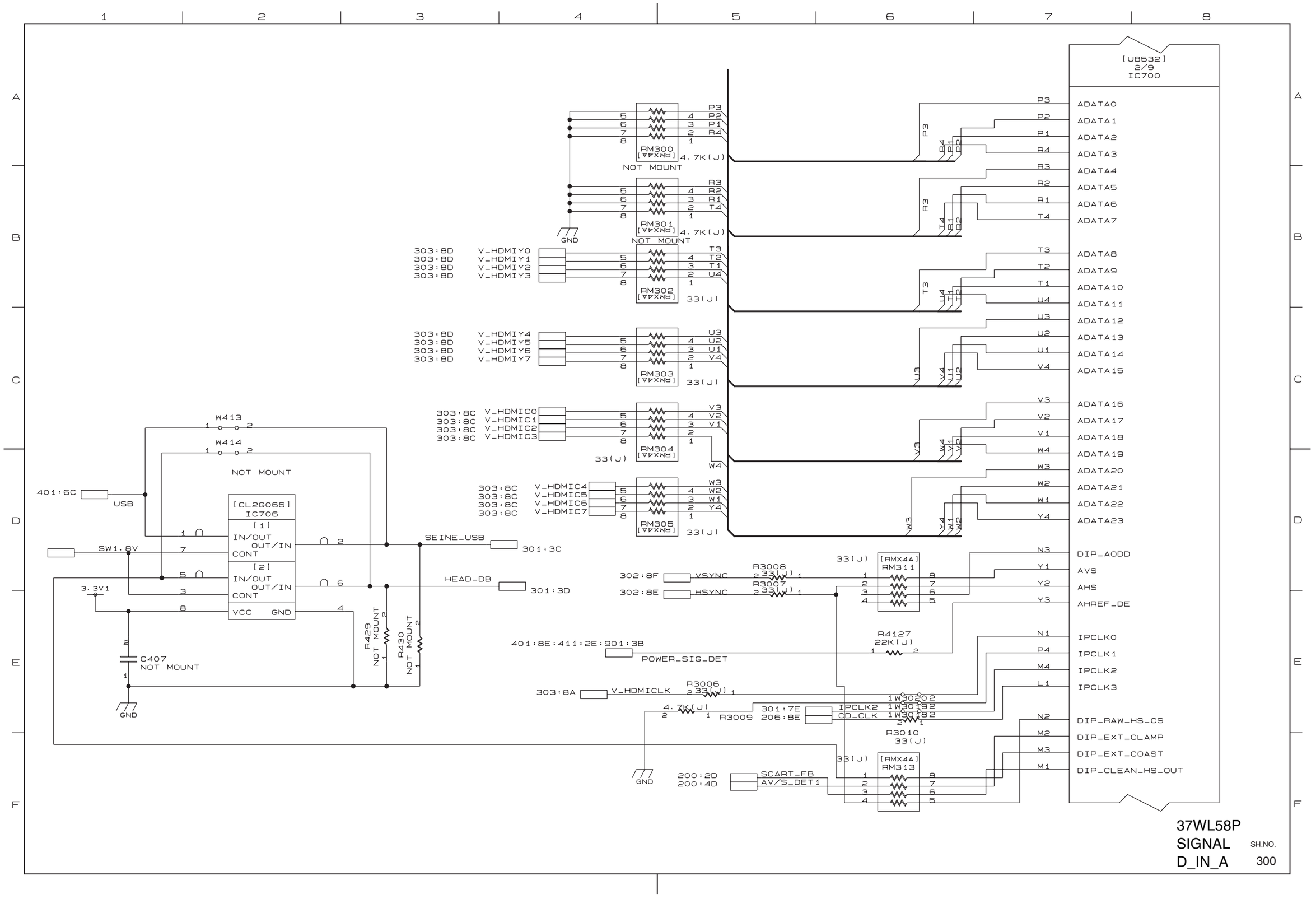
SH.NO.
207


9V
C5001
[cp]
100uF(M)
16V
R5060
NOT MOUNT
R5004
1K(J)
C5013
150pF(J)
R5007
120(J)
L5001
2.2uH(J)
[TRP]
R5001
100(J)
Y3_CD
200:1A
Q5001
2SA1586-Y(TE85L.F)
R5010
470(J)
R5063
C5010
68pF(J)
C5016
220pF(J)
NOT MOUNT
R5066
R5013
100(J)
Q5004
2SC4116-Y(TE85L.F)
NOT MOUNT
R5069
R5088
560(J)
C5002
16V
100nF(K)
R5016
1.5K(J)
R5025
1.5K(J)
C5005
16V
100nF(K)
R5028
1.5K(J)
C5008
16V
100nF(K)
W5001
206:1B:209:7C
V_3
O(X)
206:1B
Y_3
R5020
100(J)
Q5007
2SA1586-Y(TE85L.F)
R5022
100(J)
Q5010
2SA1586-Y(TE85L.F)
GND
R5005
1K(J)
C5014
150pF(J)
R5008
120(J)
L5002
2.2uH(J)
R5061
NOT MOUNT
Cb_CD
R5002
100(J)
Q5002
2SA1586-Y(TE85L.F)
R5011
470(J)
R5064
C5011
68pF(J)
C5017
220pF(J)
NOT MOUNT
R5067
R5014
100(J)
Q5005
2SC4116-Y(TE85L.F)
NOT MOUNT
R5070
R5021
100(J)
Q5008
2SA1586-Y(TE85L.F)
R5017
560(J)
C5003
16V
100nF(K)
R5023
100(J)
R5018
1.5K(J)
R5026
1.5K(J)
C5006
16V
100nF(K)
R5029
1.5K(J)
C5009
16V
100nF(K)
CB_3
206:1C
C_3
206:1B
Q5012
2SA1586-Y(TE85L.F)
GND
R5006
1K(J)
C5015
150pF(J)
R5009
120(J)
L5003
2.2uH(J)
R5062
NOT MOUNT
Cr_CD
R5003
100(J)
Q5003
2SA1586-Y(TE85L.F)
R5012
470(J)
R5065
C5012
68pF(J)
C5018
220pF(J)
NOT MOUNT
R5068
R5015
100(J)
Q5006
2SC4116-Y(TE85L.F)
NOT MOUNT
R5071
R5024
100(J)
Q5009
2SA1586-Y(TE85L.F)
R5019
4.7K(J)
C5004
16V
100nF(K)
R5027
1.5K(J)
C5007
16V
100nF(K)
CR_3
206:1B
GND
37WL58P
SIGNAL
INPUT LPF
SH.NO.
208

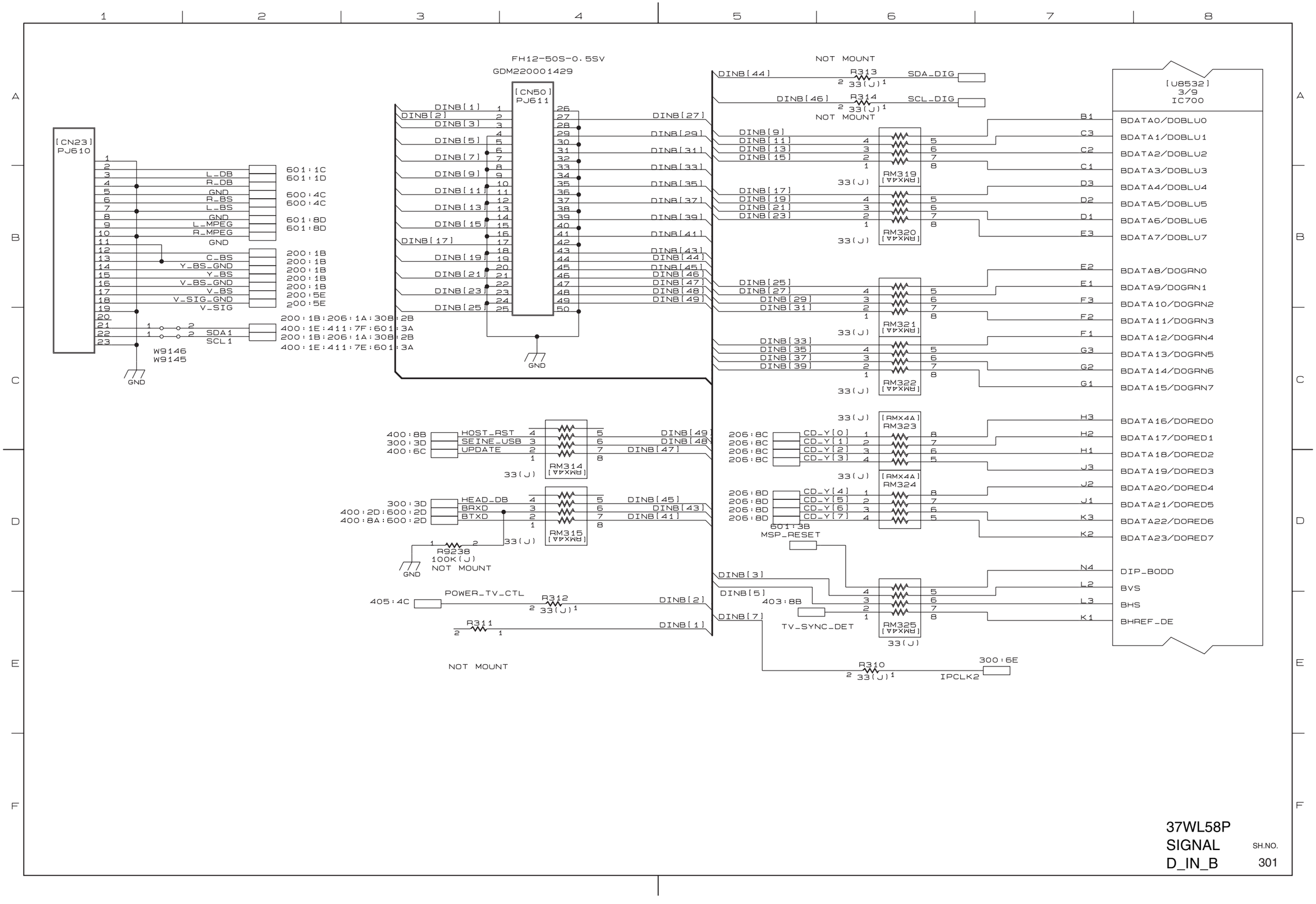


37WL58P
SIGNAL
FUNCTION

SH.NO.
209

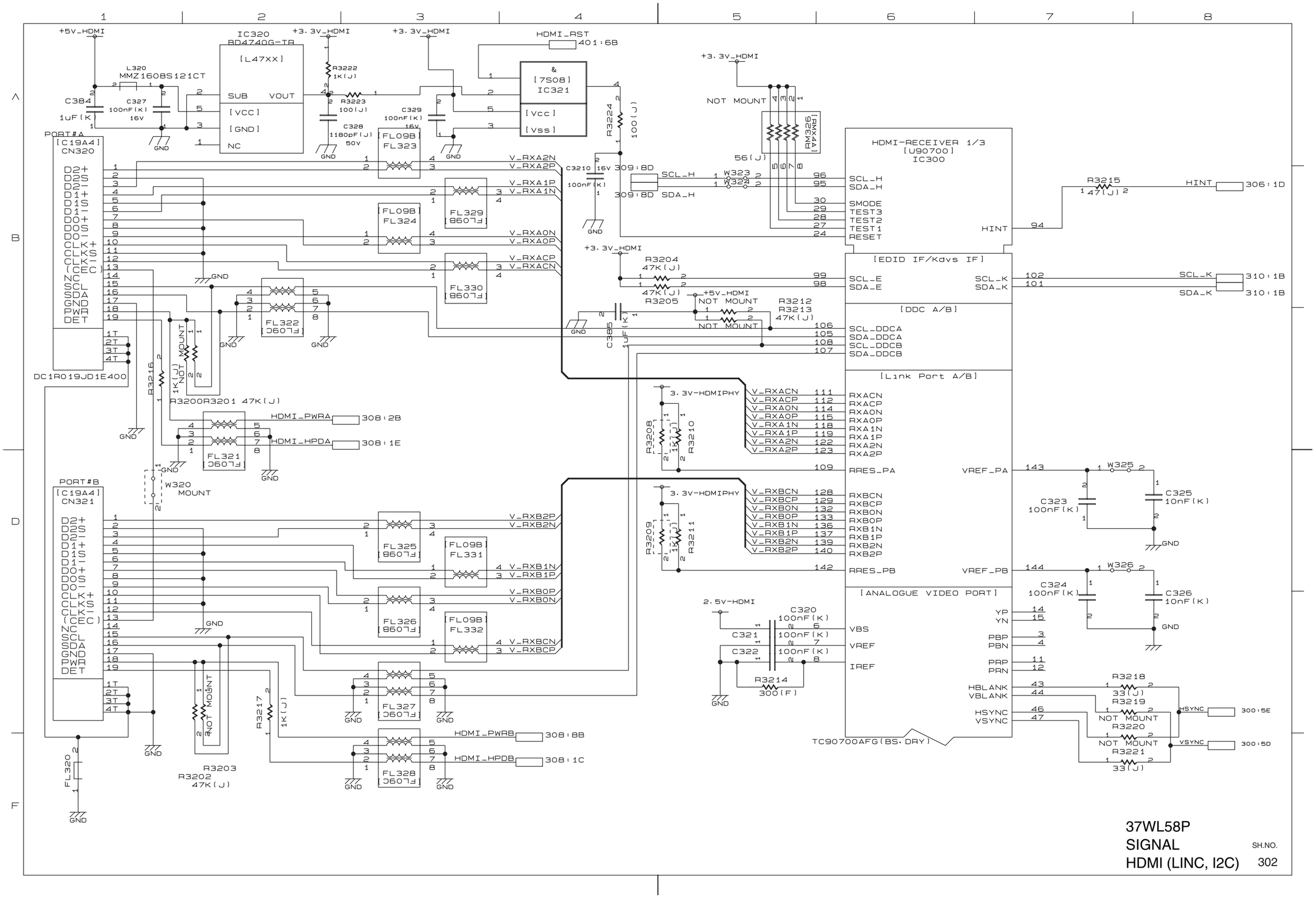


37WL58P
SIGNAL SH.NO.
D_IN_A 300



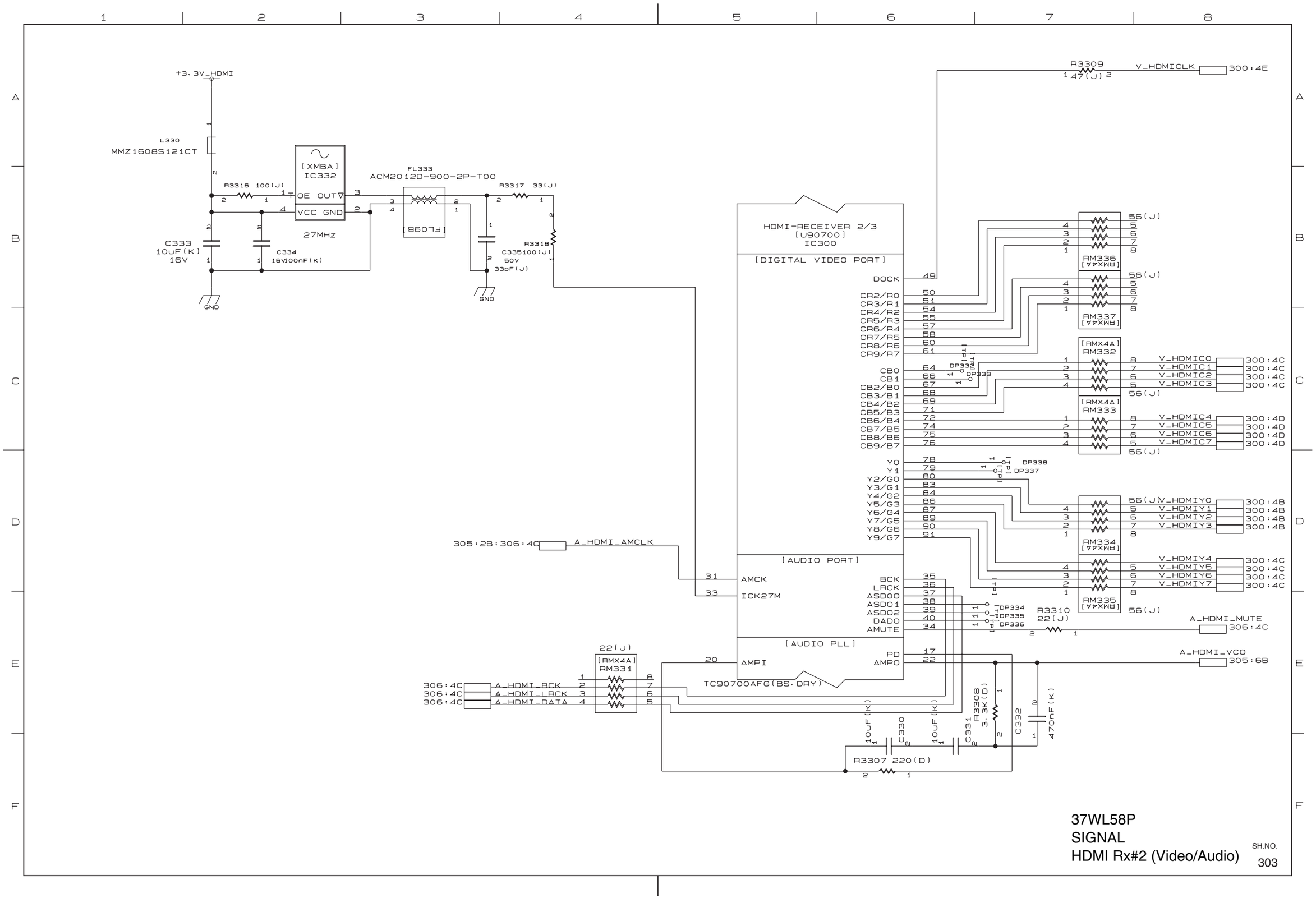
37WL58P
SIGNAL
D_IN_B

SH.NO.
301



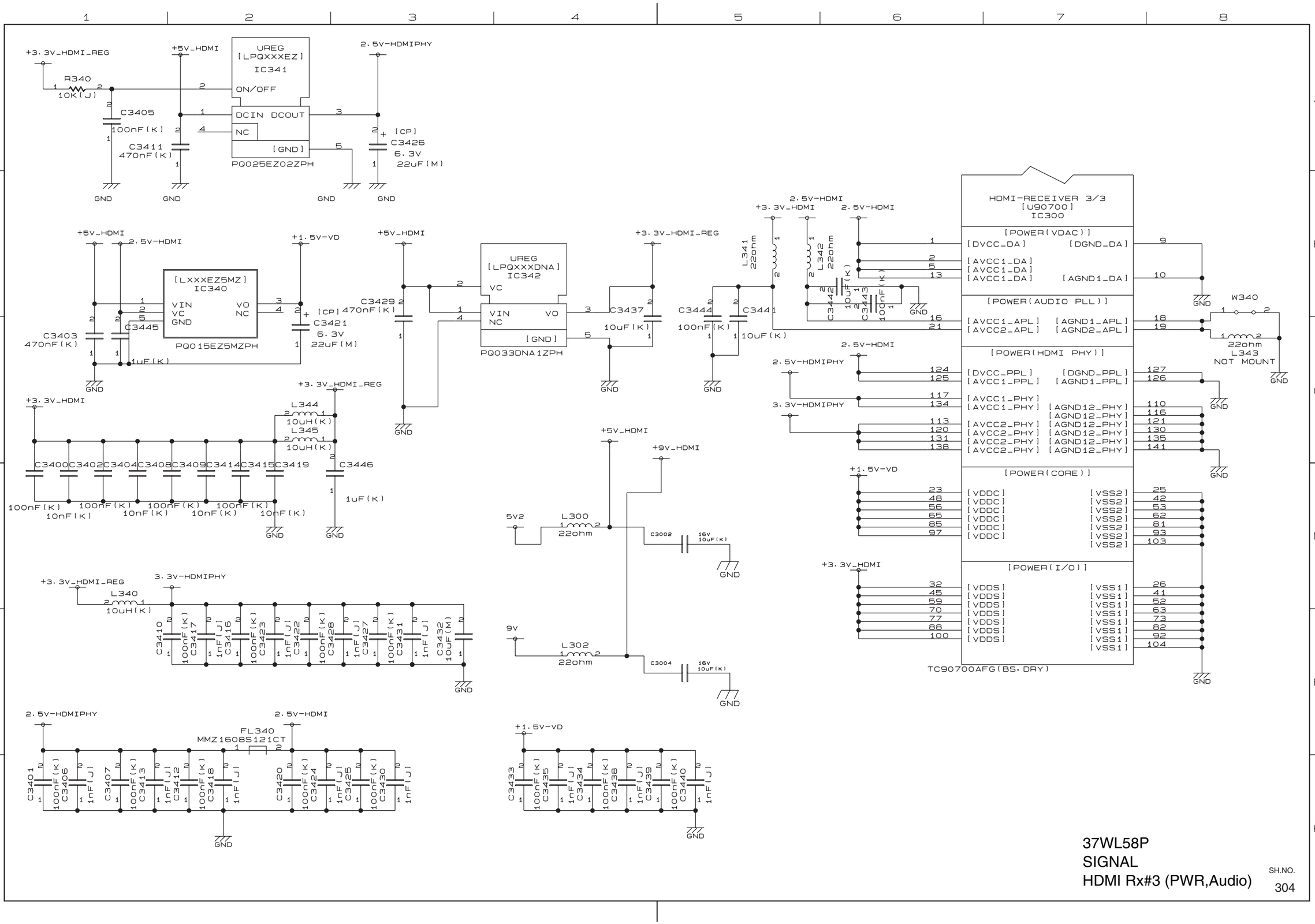
37WL58P
SIGNAL
HDMI (LINC, I2C)

SH.NO.
302



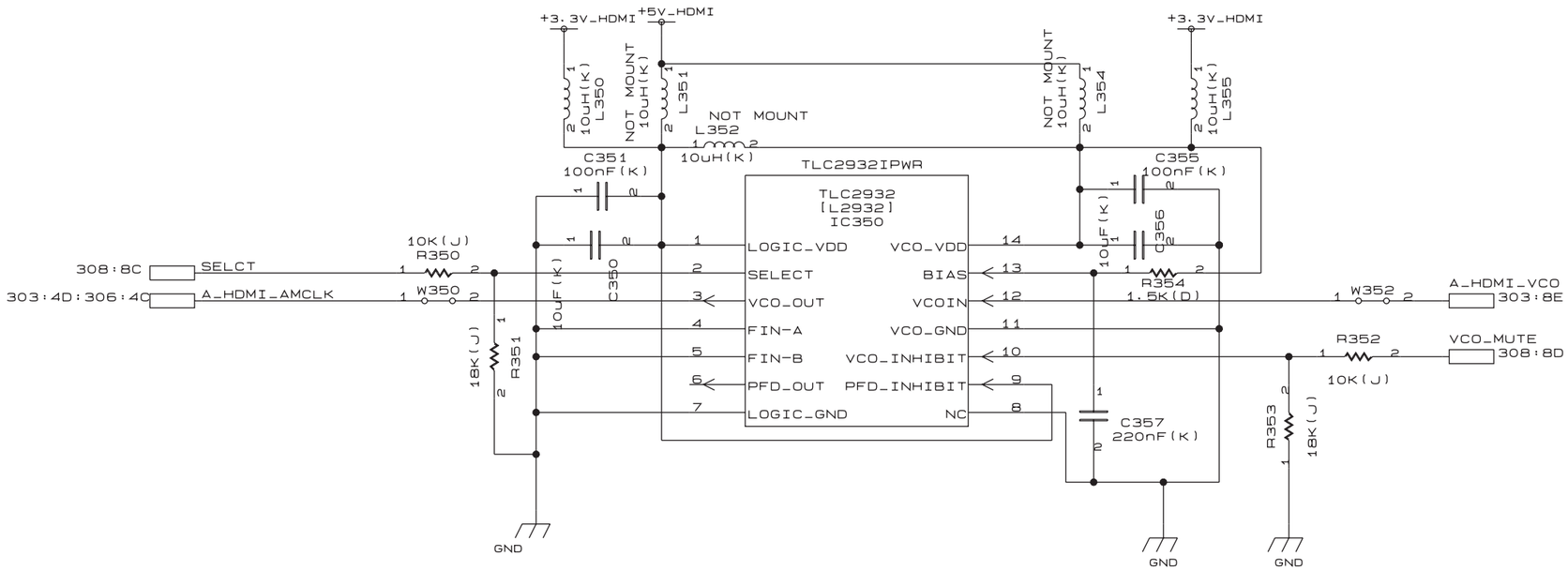
37WL58P
SIGNAL
HDMI Rx#2 (Video/Audio)

SH.NO.
303



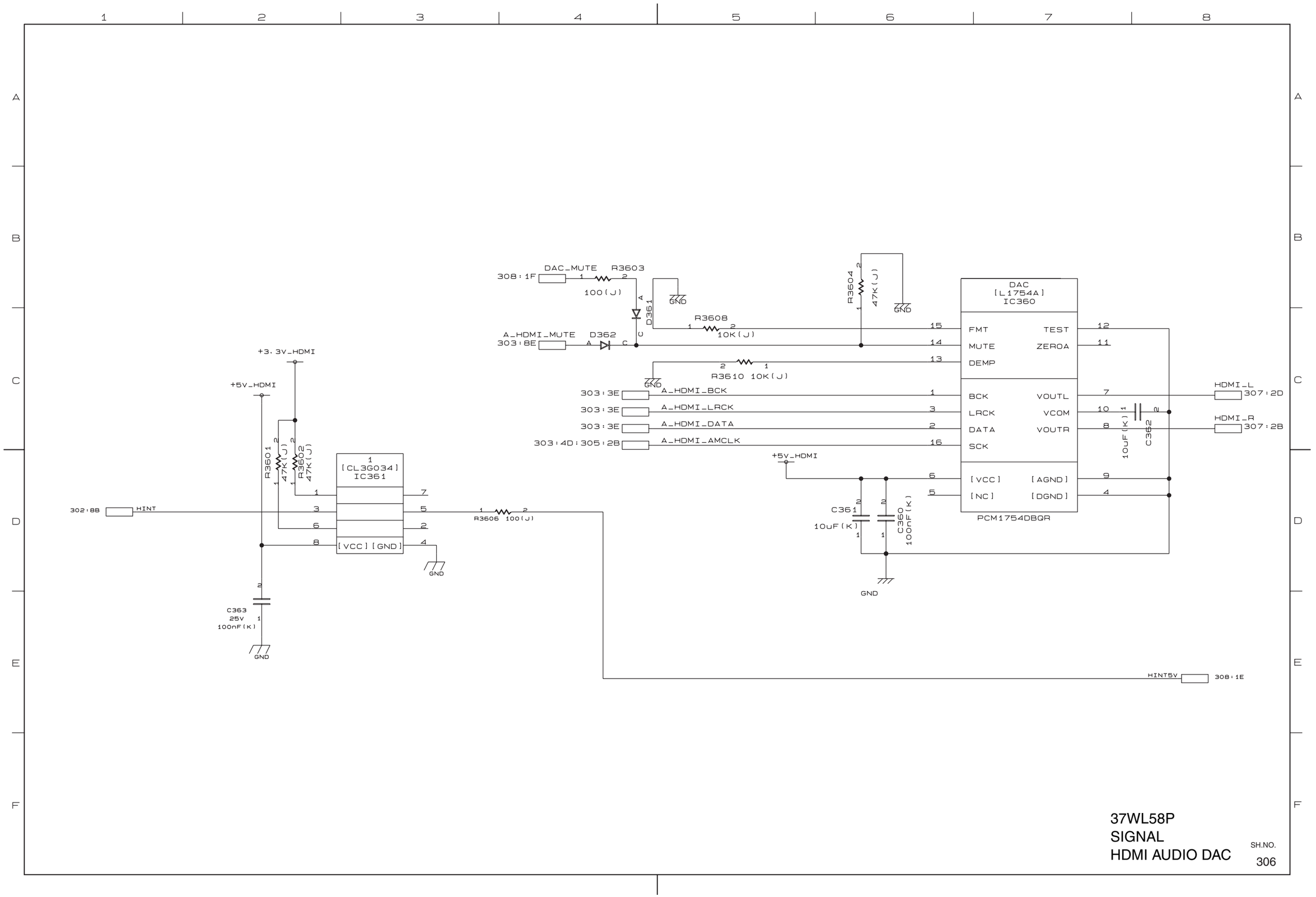
37WL58P
SIGNAL
HDMI Rx#3 (PWR,Audio)

SH.NO.
304



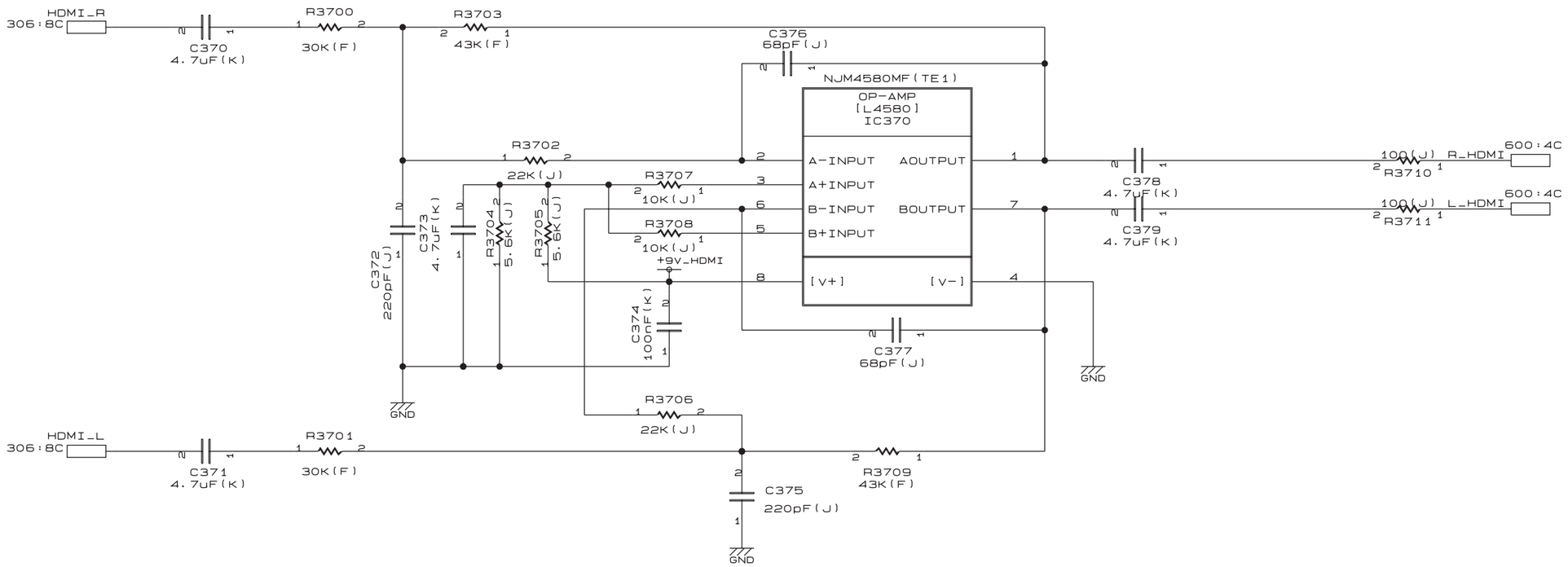
37WL58P
SIGNAL
HDMI AUDIO PLL

SH.NO.
305



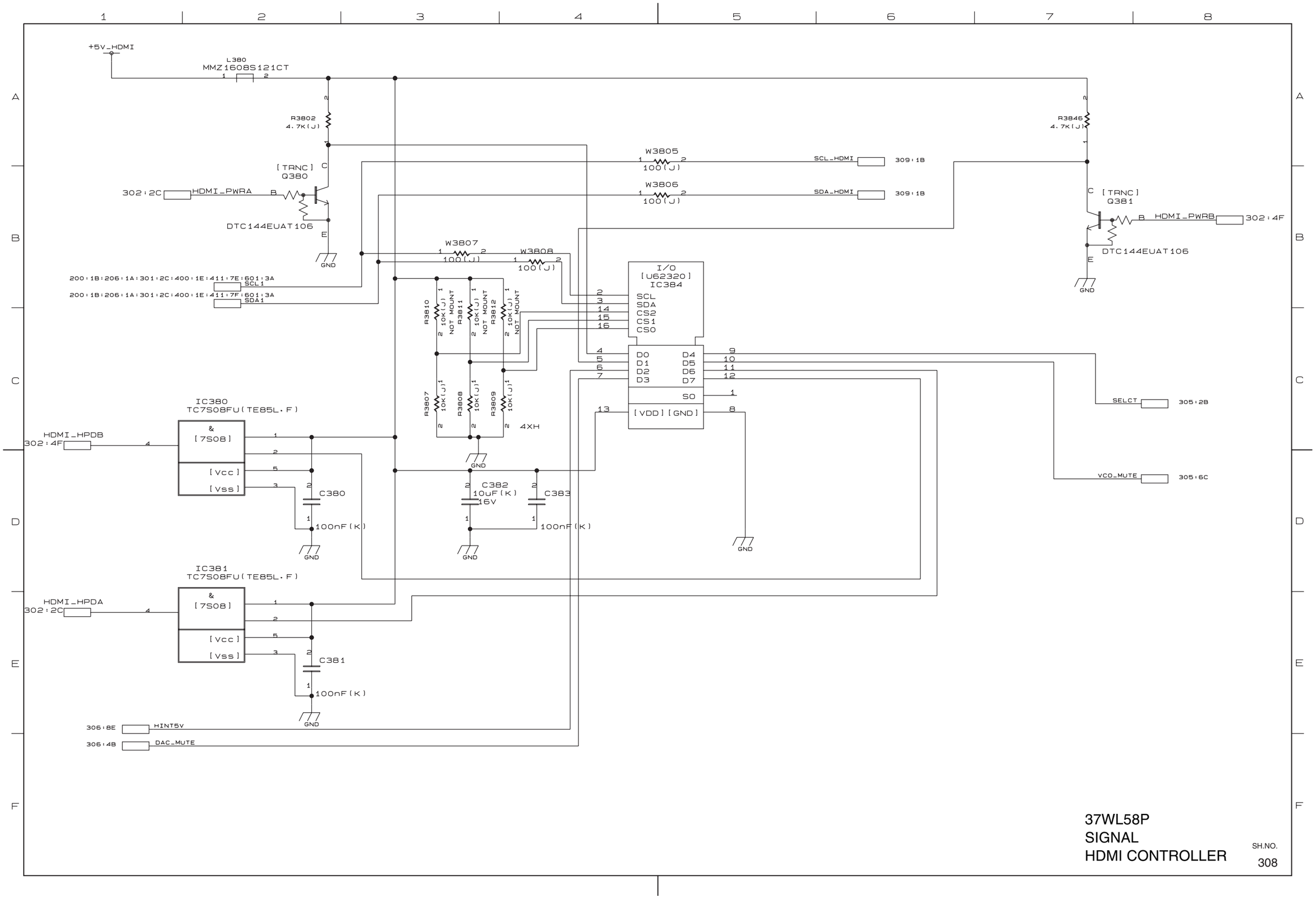
37WL58P
SIGNAL
HDMI AUDIO DAC

SH.NO.
306



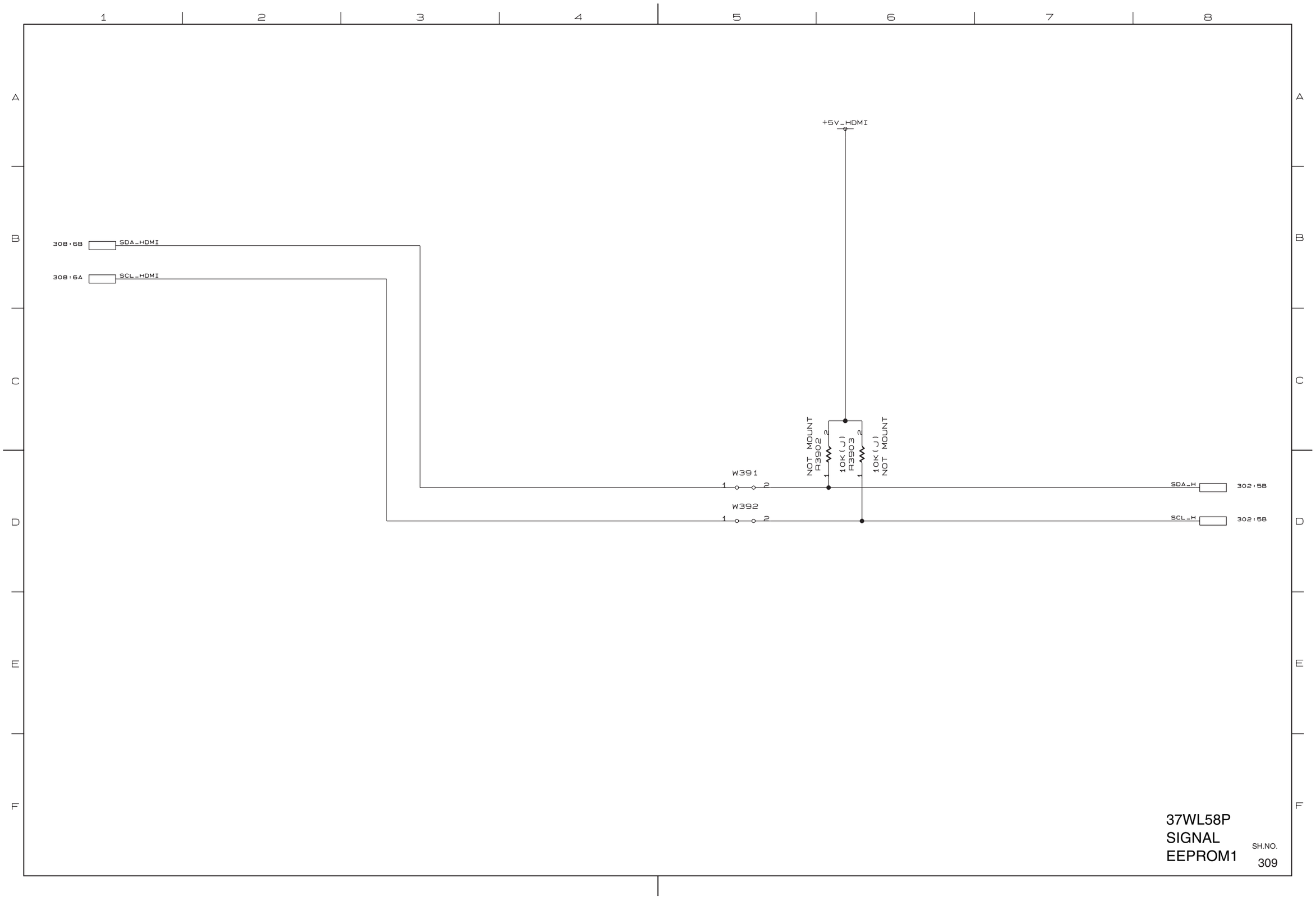
37WL58P
SIGNAL
HDMI AUDIO OUT

SH.NO.
307



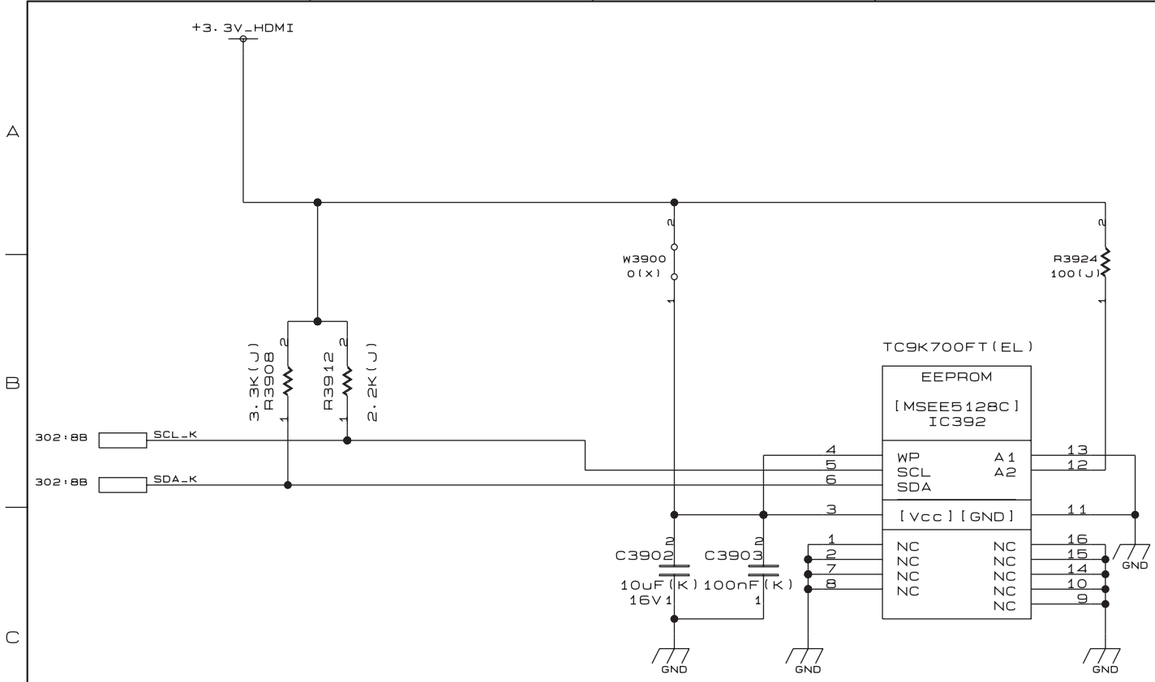
37WL58P
SIGNAL
HDMI CONTROLLER

SH.NO.
308



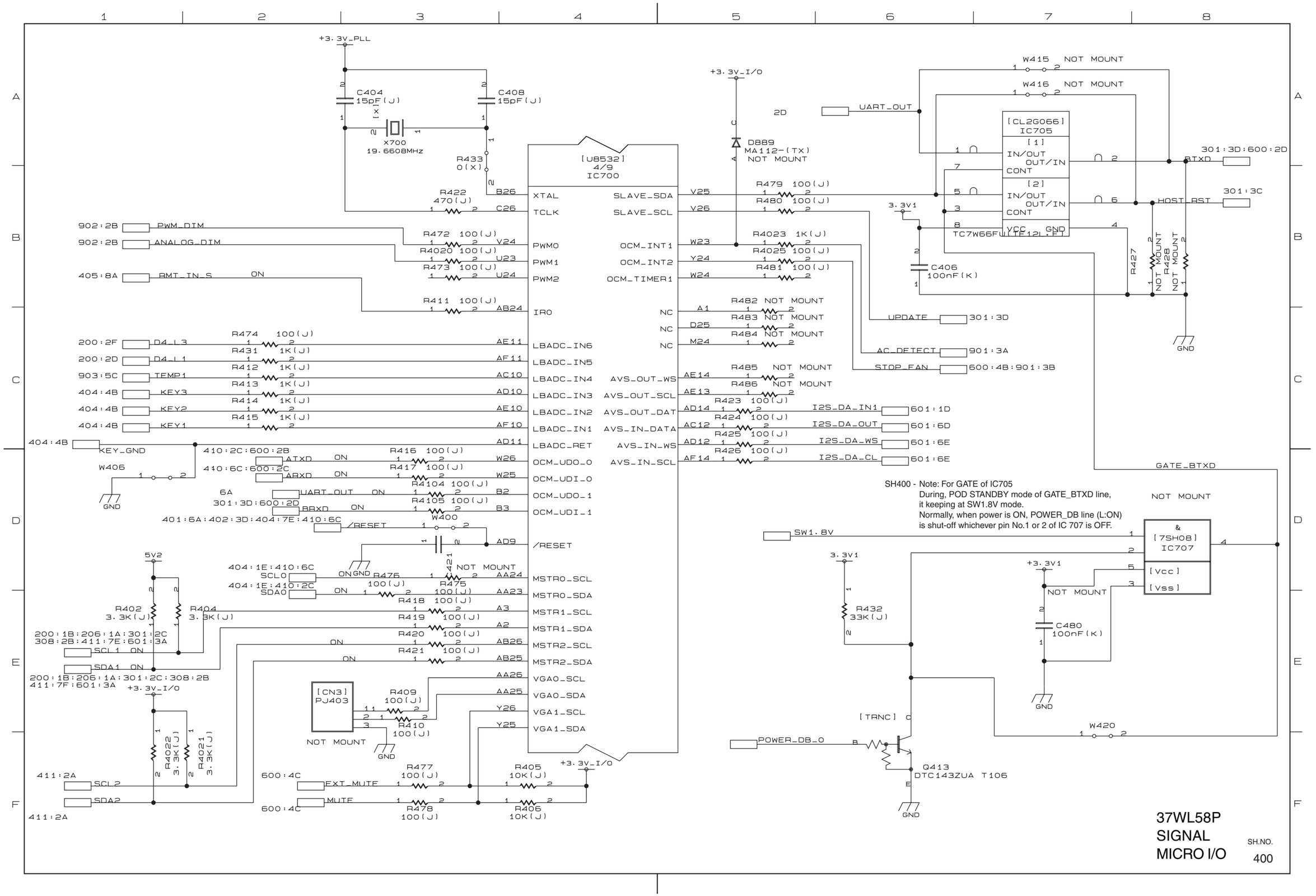
37WL58P
SIGNAL
EEPROM1

SH.NO.
309



37WL58P
SIGNAL
EEPROM2

SH.NO.
310


[U8532]
4/9
IC700
XTAL
TCLK
PWM0
PWM1
PWM2
IRO
LBADC_IN6
LBADC_IN5
LBADC_IN4
LBADC_IN3
LBADC_IN2
LBADC_IN1
LBADC_RET
OCM_UDO_0
OCM_UDI_0
OCM_UDO_1
OCM_UDI_1
/RESET
MSTR0_SCL
MSTR0_SDA
MSTR1_SCL
MSTR1_SDA
MSTR2_SCL
MSTR2_SDA
VGA0_SCL
VGA0_SDA
VGA1_SCL
VGA1_SDA
SLAVE_SDA
SLAVE_SCL
OCM_INT1
OCM_INT2
OCM_TIMER1
NC
NC
NC
AVS_OUT_WS
AVS_OUT_SCL
AVS_OUT_DAT
AVS_IN_DATA
AVS_IN_WS
AVS_IN_SCL
+3.3V_PLL
C404 15pF(J)
C408 15pF(J)
X700 19.6608MHz
R433 0(X)
R422 470(J)
+3.3V_I/O
D889 MA112-(TX) NOT MOUNT
W415 NOT MOUNT
W416 NOT MOUNT
UART_OUT
[CL2G066] IC705
[1] IN/OUT OUT/IN CONT
[2] IN/OUT OUT/IN CONT
VCC GND
TC7W66FU(TE12L,F)
3.3V1
C406 100nF(K)
R427
R428 NOT MOUNT
R429 NOT MOUNT
HOST_RST
GND
301:3D;600:2D
RTXD
301:3C
R479 100(J)
R480 100(J)
R4023 1K(J)
R4025 100(J)
R481 100(J)
R482 NOT MOUNT
R483 NOT MOUNT
R484 NOT MOUNT
R485 NOT MOUNT
R486 NOT MOUNT
UPDATE
301:3D
AC_DETECT
901:3A
STOP_FAN
600:4B;901:3B
R423 100(J)
R424 100(J)
R425 100(J)
R426 100(J)
I2S_DA_IN1
I2S_DA_OUT
I2S_DA_WS
I2S_DA_CL
601:1D
601:6D
601:6E
601:6E
902:2B PWM_DIM
902:2B ANALOG_DIM
405:8A RMT_IN_S
ON
R472 100(J)
R4020 100(J)
R473 100(J)
R411 100(J)
200:2F D4_L3
200:2D D4_L1
903:5C TEMP1
404:4B KEY3
404:4B KEY2
404:4B KEY1
404:4B KEY_GND
R474 100(J)
R431 1K(J)
R412 1K(J)
R413 1K(J)
R414 1K(J)
R415 1K(J)
W406
GND
410:2C;600:2B ATXD
410:6C;600:2C ARXD
6A UART_OUT
301:3D;600:2D BRXD
R416 100(J)
R417 100(J)
R4104 100(J)
R4105 100(J)
W400
401:6A;402:3D;404:7E;410:6C /RESET
404:1E;410:6C SCL0
404:1E;410:2C SDA0
R476 100(J)
R475 100(J)
R418 100(J)
R419 100(J)
R420 100(J)
R421 100(J)
C421 NOT MOUNT
5V2
R402 3.3K(J)
R404 3.3K(J)
200:1B;206:1A;301:2C
308:2B;411:7E;601:3A
SCL1
SDA1
200:1B;206:1A;301:2C;308:2B
411:7F;601:3A
+3.3V_I/O
R4022 3.3K(J)
R4021 3.3K(J)
411:2A SCL2
411:2A SDA2
[CN3] PJ403
NOT MOUNT
R409 100(J)
R410 100(J)
600:4C EXT_MUTE
600:4C MUTE
R477 100(J)
R478 100(J)
R405 10K(J)
R406 10K(J)
+3.3V_I/O
SH400 - Note: For GATE of IC705
During, POD STANDBY mode of GATE_BTXD line,
it keeping at SW1.8V mode.
Normally, when power is ON, POWER_DB line (L:ON)
is shut-off whichever pin No.1 or 2 of IC 707 is OFF.
GATE_BTXD
NOT MOUNT
SW1.8V
&
[7SH08]
IC707
[Vcc]
[Vss]
3.3V1
R432 33K(J)
+3.3V1
NOT MOUNT
C480 100nF(K)
GND
[TRNC]
POWER_DB_O
Q413
DTC143ZUA T106
W420
GND
37WL58P
SIGNAL
MICRO I/O
SH.NO.
400

402:3A:409:1B

/OCM_RE. /OCM_WE. /ROM_CS. OCMADDR[0-20]. OCMDATA[0-7]

/RESET

R487 33(J)

R440 33(J)

OCMADDR[20]

OCMADDR[19] OCMADDR[18] OCMADDR[17] OCMADDR[16] — RM400 [RMX4A] 33(J)

OCMADDR[15] OCMADDR[14] OCMADDR[13] OCMADDR[12] — RM401 [RMX4A] 33(J)

OCMADDR[11] OCMADDR[10] OCMADDR[9] OCMADDR[8] — RM402 [RMX4A] 33(J)

OCMADDR[7] OCMADDR[6] OCMADDR[5] OCMADDR[4] — RM403 [RMX4A] 33(J)

OCMADDR[3] OCMADDR[2] OCMADDR[1] OCMADDR[0] — RM404 [RMX4A] 33(J)

[U8532] 7/9 IC700

AF15	OCMADDR21	PBIAS	
AE15	OCMADDR20	PPWR	
AD15	OCMADDR19		
AC15	OCMADDR18	GPIO47	R25
AF16	OCMADDR17	GPIO46	R24
AE16	OCMADDR16	GPIO45	R23
AD16	OCMADDR15	GPIO44	T26
AF17	OCMADDR14	JTAG_BS_TDO	T25
AE17	OCMADDR13	JTAG_BS_TMS	T24
AD17	OCMADDR12		
AC17	OCMADDR11	OCMCS2n	AC24
AF18	OCMADDR10	OCMCS1n	AD26
AE18	OCMADDR9	OCMCS0n	AD25
AD18	OCMADDR8	ROMCSn	AD24
AF19	OCMADDR7	OCMWEn	AC26
AE19	OCMADDR6	OCMREn	AC25
AD19	OCMADDR5		
AC19	OCMADDR4	OCMDATA0	AE26
AF20	OCMADDR3	OCMDATA1	AE25
AE20	OCMADDR2	OCMDATA2	AE24
AD20	OCMADDR1	OCMDATA3	AF26
AF21	OCMADDR0	OCMDATA4	AF25
		OCMDATA5	AF24
		OCMDATA6	AC23
		OCMDATA7	AD23
		OCMDATA8	AE23
		OCMDATA9	AF23
		OCMDATA10	AD22
		OCMDATA11	AE22
		OCMDATA12	AF22
		OCMDATA13	AC21
		OCMDATA14	AD21
		OCMDATA15	AE21

R441 100(J) U26 — BL_ONOFF — 902:4D
R442 100(J) U25 — POWER_LCD — 901:3B
R443 100(J) — D4_SW — 200:4D
R444 100(J) NOT MOUNT
R445 100(J) — HDMI_RST — 302:4A
R446 100(J) — POWER_KEY_S — 405:8A
R447 100(J) — GP1 — 200:1C
R448 100(J) — BS_TV_MUTE — 600:4C
R488 100(J) — USB — 300:1D
R489 100(J) — MAIN_SYNC_DET — 403:8E
R449 1K(J) — D4_L2 — 200:2E

[RMX4A] RM407 33(J) — /ROM_CS, /OCM_WE, /OCM_RE
[RMX4A] RM405 33(J) — OCMDATA[0] OCMDATA[1] OCMDATA[2] OCMDATA[3]
[RMX4A] RM406 33(J) — OCMDATA[4] OCMDATA[5] OCMDATA[6] OCMDATA[7]

R4029 100(J) — SW_DVI1 — 600:4B
R4030 100(J) — AV/S_DET2 — 200:4F
R4031 100(J) NOT MOUNT (AV/S DET3)
R4032 1K(J)
R4033 100(J) — SW_DVI2 — 600:4B
R4034 100(J) — LED3 — 404:8B
R4035 100(J) — LED4 — 404:8B
R4036 100(J) — 50HZ_60HZ — 903:1A

NOT MOUNT
+3.3V1
NOT MOUNT
C4014 100nF(K)
GND
& [7SH08] IC421
[Vcc]
[Vss]
W417
NOT MOUNT
STBY_RST — 405:3E
+3.3V_I/O
R4071 0K(J)
NOT MOUNT R4118 10K(J)
R4119 10K(J) NOT MOUNT
GND
+3.3V_I/O
R4026 1K(J)
[TRP] Q404 2SA1586-Y(TE85L.F)
R4027 1K(J)
300:4E:411:2E:901:3B
POWER_SIG_DET
R4028 47K(J)
C478 470pF(J)
GND

5V2
BD5245G-TR
[LBD52XXA] IC424
CT VOUT
[VCC]
[GND]
NC
C4020 100nF(K) 16V
C4019 4.7nF(K)
GND

37WL58P
SIGNAL
OCM MEMORY I/F

SH.NO. 401

401:1A:409:1B

/OCM_RE. /OCM_WE. /ROM_CS. OCMADDR[0-20]. OCMDATA[0-7]

MX26LV160TTC-55G

[MFLV160C]
IC404

OCMADDR[1] 25 — A0
OCMADDR[2] 24 — A1
OCMADDR[3] 23 — A2
OCMADDR[4] 22 — A3
OCMADDR[5] 21 — A4
OCMADDR[6] 20 — A5
OCMADDR[7] 19 — A6
OCMADDR[8] 18 — A7
OCMADDR[9] 8 — A8
OCMADDR[10] 7 — A9
OCMADDR[11] 6 — A10
OCMADDR[12] 5 — A11
OCMADDR[13] 4 — A12
OCMADDR[14] 3 — A13
OCMADDR[15] 2 — A14
OCMADDR[16] 1 — A15
OCMADDR[17] 48 — A16
OCMADDR[18] 17 — A17
OCMADDR[19] 16 — A18
OCMADDR[20] 9 — A19

/ROM_CS 26 — CEN
/OCM_RE 28 — OEN
/OCM_WE 11 — WEN
12 — RPN
47 — BYTEN

RY/BYN — 15
NC — 10
NC — 13
NC — 14

D0 29 — OCMDATA[0]
D1 31 — OCMDATA[1]
D2 33 — OCMDATA[2]
D3 35 — OCMDATA[3]
D4 38 — OCMDATA[4]
D5 40 — OCMDATA[5]
D6 42 — OCMDATA[6]
D7 44 — OCMDATA[7]
D8 30
D9 32
D10 34
D11 36
D12 39
D13 41
D14 43
D15/A-1 45 — OCMADDR[0]

[Vcc] 37
[GND] 27
[GND] 46

GND

400:3D:401:6A:404:7E:410:6C /RESET 1 2 W411 MOUNT

R4086 1 2 2.2K(J)

C464 NOT MOUNT

+3.3V_I/O

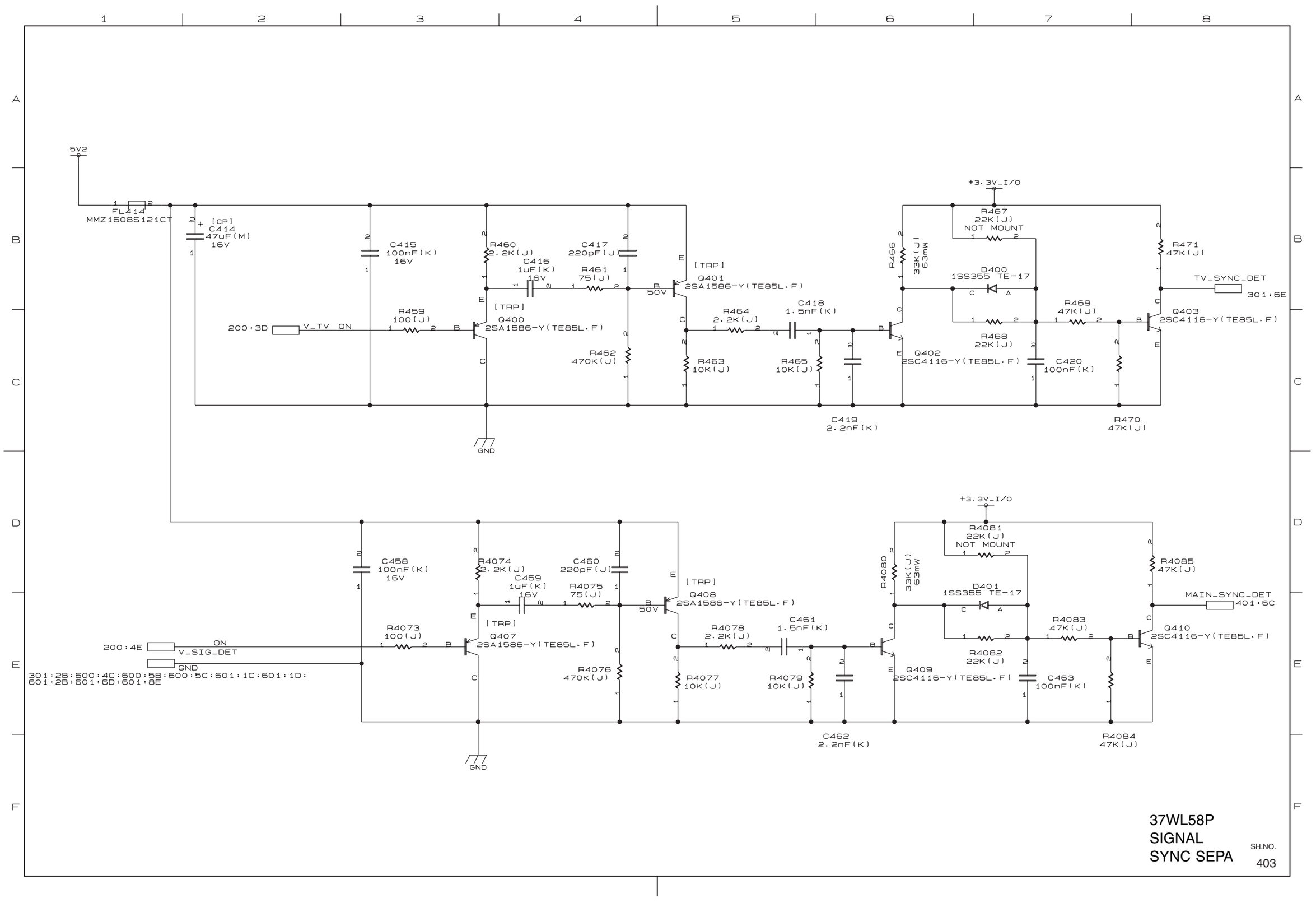
C410 10uF(K) 6.3V

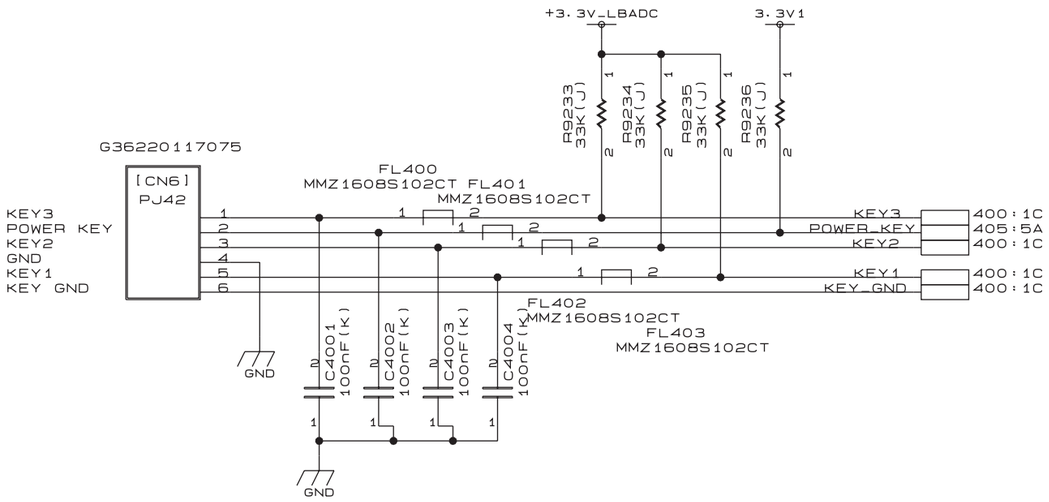
C411 100nF(K) 16V

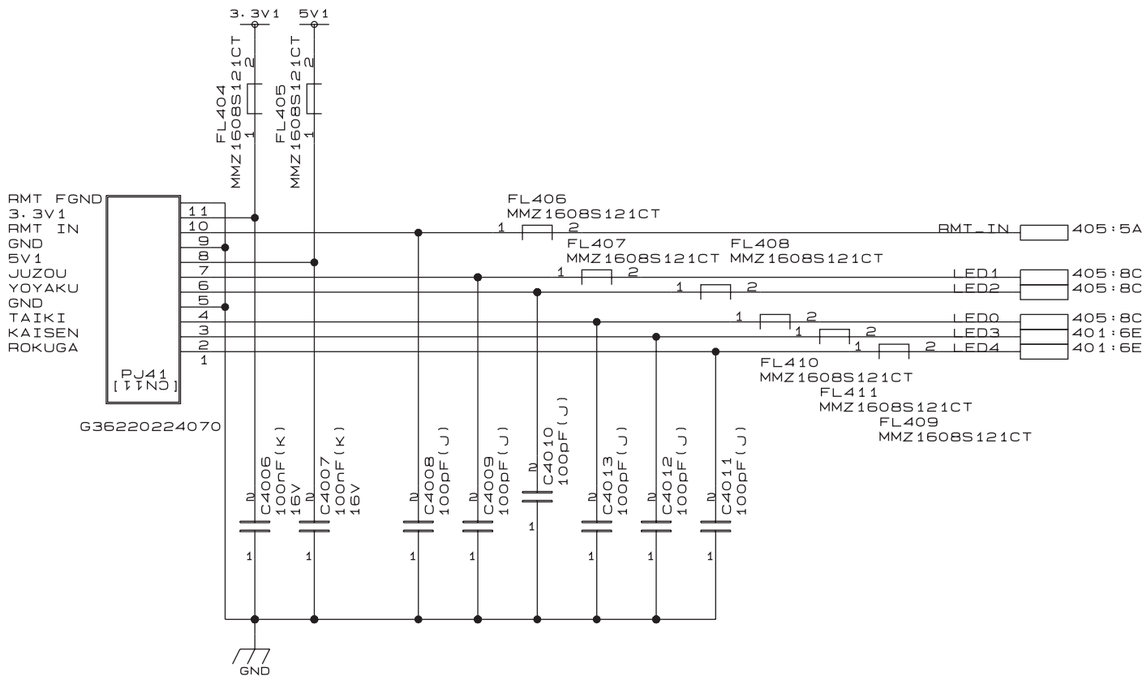
GND

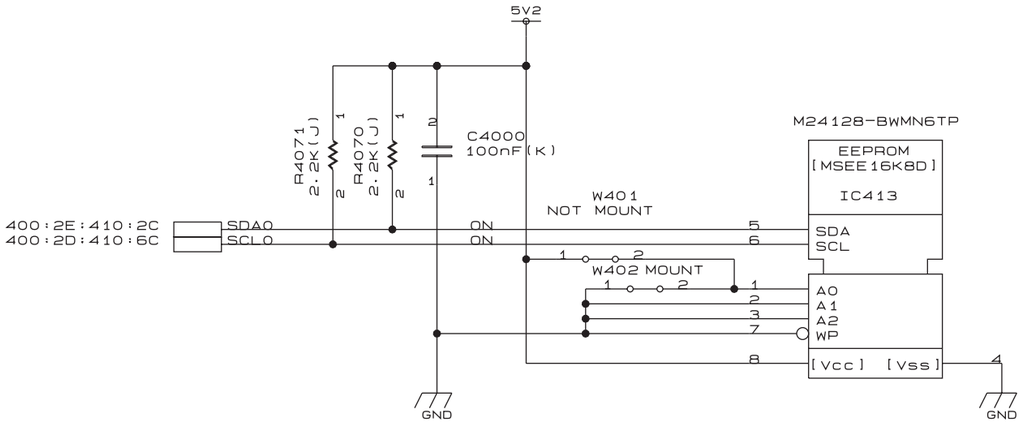
37WL58P
SIGNAL
FLASH MEMORY

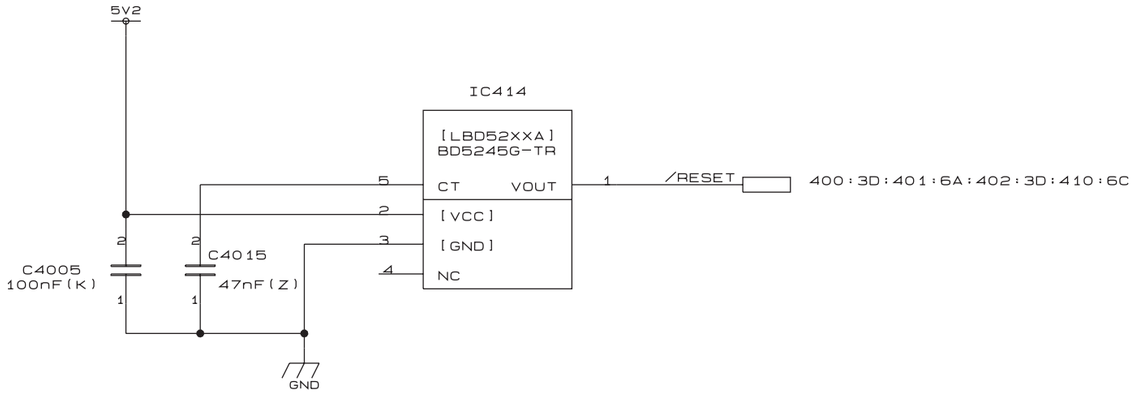
SH.NO.
402


5V2
FL414
MMZ1608S121CT
[CP]
C414
47uF(M)
16V
C415
100nF(K)
16V
R460
2.2K(J)
C416
1uF(K)
16V
C417
220pF(J)
R461
75(J)
[TRP]
Q401
2SA1586-Y(TE85L.F)
50V
R459
100(J)
200:3D
V_TV ON
[TRP]
Q400
2SA1586-Y(TE85L.F)
R462
470K(J)
R464
2.2K(J)
C418
1.5nF(K)
R463
10K(J)
R465
10K(J)
C419
2.2nF(K)
GND
+3.3V_I/O
R467
22K(J)
NOT MOUNT
R466
33K(J)
63mW
D400
1SS355 TE-17
R471
47K(J)
TV_SYNC_DET
301:6E
R469
47K(J)
Q403
2SC4116-Y(TE85L.F)
R468
22K(J)
Q402
2SC4116-Y(TE85L.F)
C420
100nF(K)
R470
47K(J)
C458
100nF(K)
16V
R4074
2.2K(J)
C459
1uF(K)
16V
C460
220pF(J)
R4075
75(J)
[TRP]
Q408
2SA1586-Y(TE85L.F)
50V
R4073
100(J)
200:4E
ON
V_SIG_DET
GND
301:2B:600:4C:600:5B:600:5C:601:1C:601:1D:
601:2B:601:6D:601:8E
[TRP]
Q407
2SA1586-Y(TE85L.F)
R4076
470K(J)
R4078
2.2K(J)
C461
1.5nF(K)
R4077
10K(J)
R4079
10K(J)
C462
2.2nF(K)
GND
+3.3V_I/O
R4081
22K(J)
NOT MOUNT
R4080
33K(J)
63mW
D401
1SS355 TE-17
R4085
47K(J)
MAIN_SYNC_DET
401:6C
R4083
47K(J)
Q410
2SC4116-Y(TE85L.F)
R4082
22K(J)
Q409
2SC4116-Y(TE85L.F)
C463
100nF(K)
R4084
47K(J)
37WL58P
SIGNAL
SYNC SEPA
SH.NO.
403



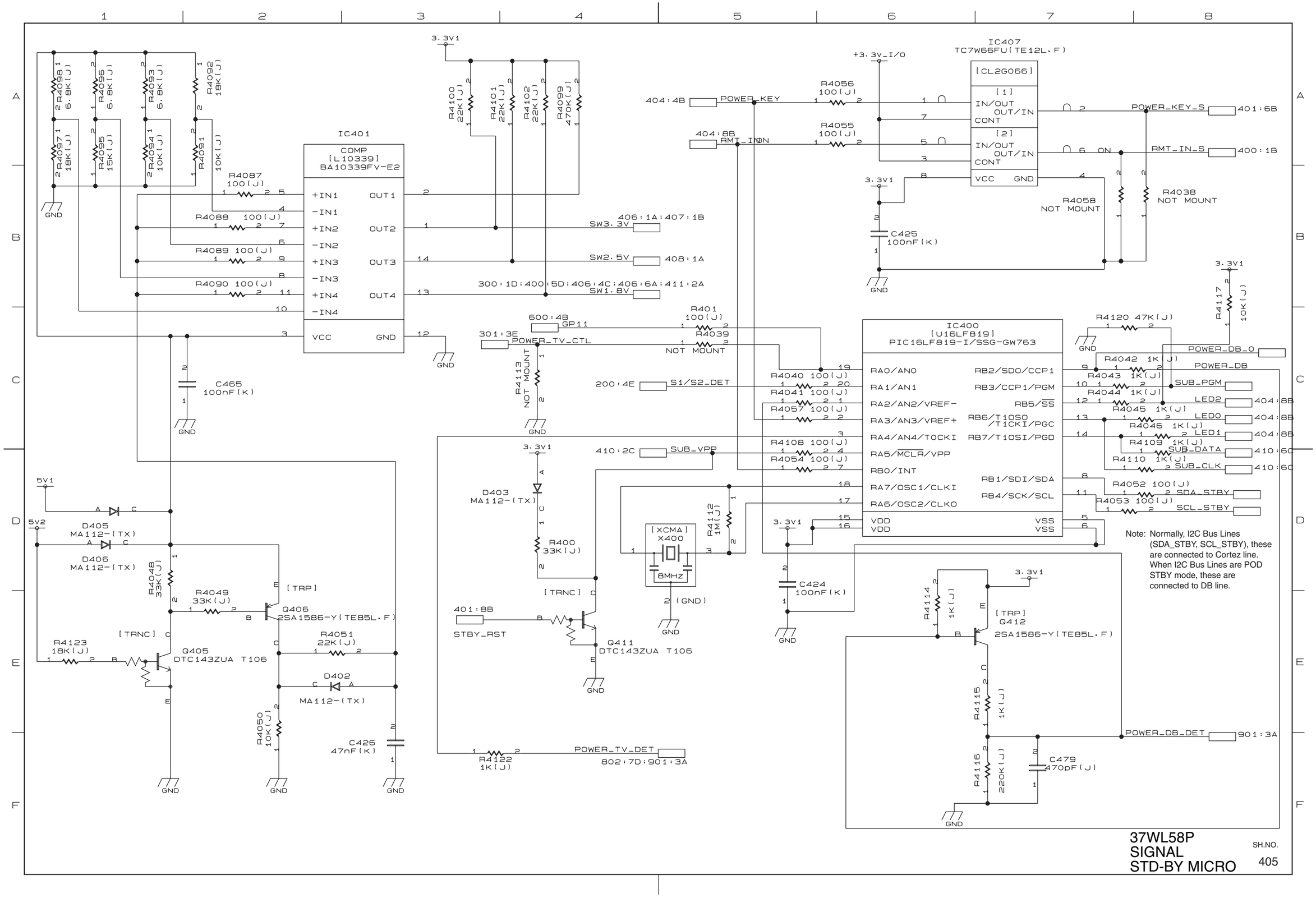






37WL58P
SIGNAL
E2P OTHER

SH.NO.
404


IC401
COMP
[L10339]
BA10339FV-E2
+IN1
-IN1
+IN2
-IN2
+IN3
-IN3
+IN4
-IN4
OUT1
OUT2
OUT3
OUT4
VCC
GND
IC407
TC7W66FU(TE12L.F)
[CL2G066]
[1]
[2]
IN/OUT
OUT/IN
CONT
IC400
[U16LF819]
PIC16LF819-I/SSG-GW763
RA0/AN0
RA1/AN1
RA2/AN2/VREF-
RA3/AN3/VREF+
RA4/AN4/TOCKI
RA5/MCLR/VPP
RB0/INT
RA7/OSC1/CLKI
RA6/OSC2/CLKO
RB2/SDO/CCP1
RB3/CCP1/PGM
RB5/SS
RB6/T1OSO/T1CKI/PGC
RB7/T1OSI/PGD
RB1/SDI/SDA
RB4/SCK/SCL
VDD
VSS
[XCMA]
X400
8MHz
[TRP]
[TRNC]
Q405
DTC143ZUA T106
Q406
2SA1586-Y(TE85L.F)
Q411
DTC143ZUA T106
Q412
2SA1586-Y(TE85L.F)
D402
D403
D405
D406
MA112-(TX)
3.3V1
5V1
5V2
GND
POWER_KEY
RMT_IN
POWER_KEY_S
RMT_IN_S
POWER_TV_CTL
POWER_TV_DET
S1/S2_DET
SUB_VPP
STBY_RST
POWER_DB_O
POWER_DB
SUB_PGM
LED2
LED0
LED1
SUB_DATA
SUB_CLK
SDA_STBY
SCL_STBY
POWER_DB_DET
SW3.3V
SW2.5V
SW1.8V
R4087 100(J)
R4088 100(J)
R4089 100(J)
R4090 100(J)
R4091 10K(J)
R4092 18K(J)
R4093 6.8K(J)
R4094 10K(J)
R4095 15K(J)
R4096 6.8K(J)
R4097 18K(J)
R4098 6.8K(J)
R4099 470K(J)
R4100 22K(J)
R4101 22K(J)
R4102 22K(J)
R4055 100(J)
R4056 100(J)
R4058 NOT MOUNT
R4038 NOT MOUNT
R401 100(J)
R4039 NOT MOUNT
R4040 100(J)
R4041 100(J)
R4057 100(J)
R4108 100(J)
R4054 100(J)
R4113 NOT MOUNT
R4120 47K(J)
R4117 10K(J)
R4042 1K(J)
R4043 1K(J)
R4044 1K(J)
R4045 1K(J)
R4046 1K(J)
R4109 1K(J)
R4110 1K(J)
R4052 100(J)
R4053 100(J)
R4112 1M(J)
R400 33K(J)
R4122 1K(J)
R4048 33K(J)
R4049 33K(J)
R4123 18K(J)
R4051 22K(J)
R4050 10K(J)
R4114 1K(J)
R4115 1K(J)
R4116 220K(J)
C465 100nF(K)
C425 100nF(K)
C424 100nF(K)
C426 47nF(K)
C479 470pF(J)
404:4B
404:8B
401:8B
410:2C
600:4B
301:3E
200:4E
406:1A:407:1B
408:1A
300:1D:400:5D:406:4C:406:6A:411:2A
401:6B
400:1B
410:6C
901:3A
802:7D:901:3A
ON
Note: Normally, I2C Bus Lines (SDA_STBY, SCL_STBY), these are connected to Cortez line. When I2C Bus Lines are POD STBY mode, these are connected to DB line.
37WL58P
SIGNAL
STD-BY MICRO
SH.NO.
405

405:4B:407:1B

SW3.3V
R4059
100(J)
C471
47pF(J)
GND
IC402
PQ070XH02ZPH
UREG
[LPQ070XH]
3.3V
VC
VADJ
VIN
VO
[GND]
5V2
C428
1uF(K)
GND
+3.3V
[CP]
C427
47uF(M)
GND
FL423
MPZ2012S221AT
+3.3V_I/O
C451
100nF(K)
16V
GND
R4061
1.5K(F)
R4062
150(F)
R4060
1K(F)
GND

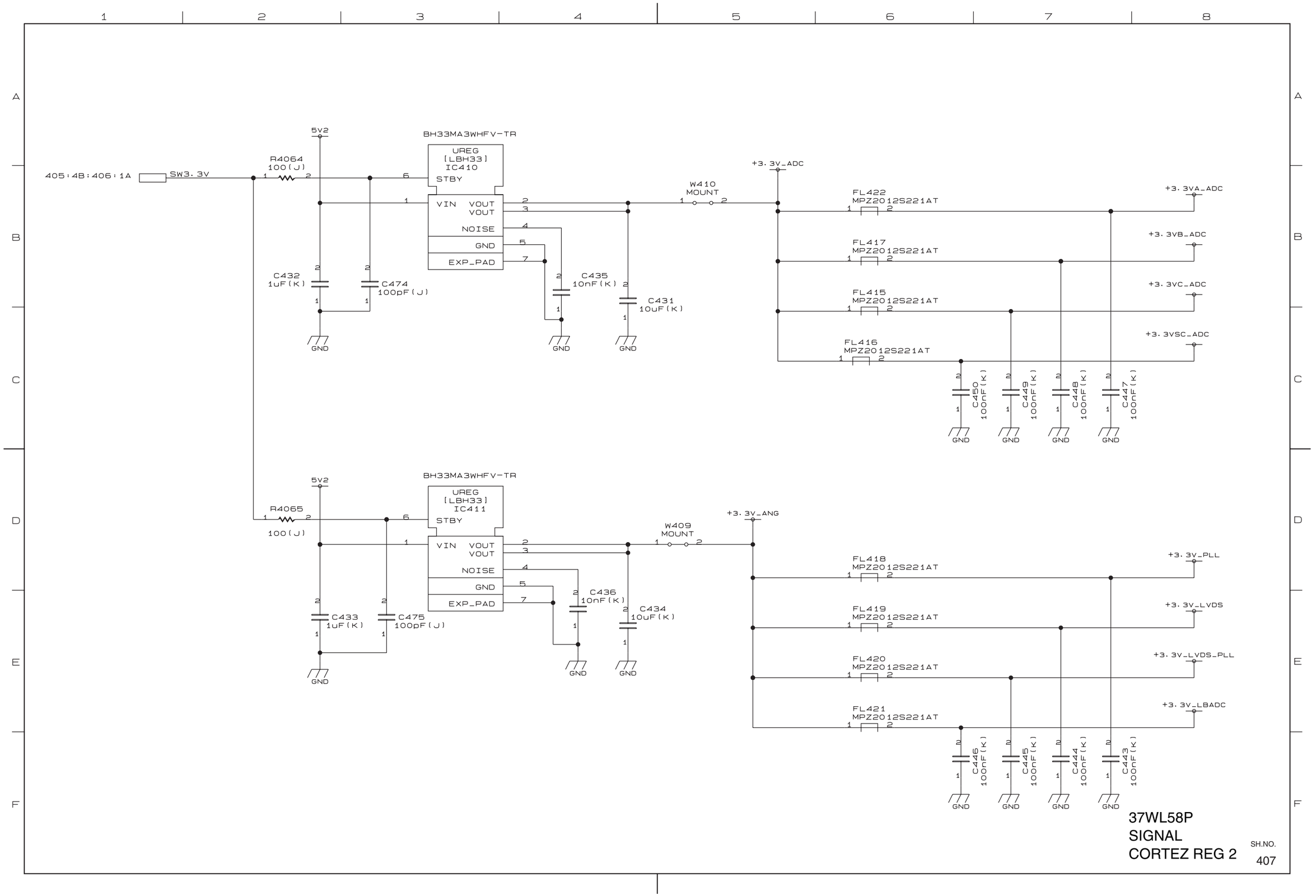
300:1D:400:5D:405:4B:6A:411:2A
SW1.8V
R4063
100(J)
C473
100pF(J)
GND
PQ018EH02ZPH
UREG
[LPQXXXEH]
IC403
1.8V
VC
NC
VIN
VO
[GND]
+3.3V
C429
1uF(K)
GND
[CP]
C453
47uF(M)
GND

300:1D:400:5D:405:4B:4C:411:2A
5V2
SW1.8V
R4072
100(J)
C452
100nF(K)
C472
100pF(J)
GND
BH18LB1WG-TR
UREG
[LBHXX]
IC412
STBY
NC
VIN
VOUT
[GND]
FL427
MPZ1608S221AT
+1.8V_ADC
C454
1uF(K)
GND

NOT MOUNT
FL428
MPZ1608S221AT
FL425
MPZ1608S221AT
+1.8V_DLL
FL426
MPZ1608S221AT
+1.8V_PLL
FL424
MPZ1608S221AT
+1.8V_CORE
C430
100nF(K)
C456
100nF(K)
C455
100nF(K)
GND

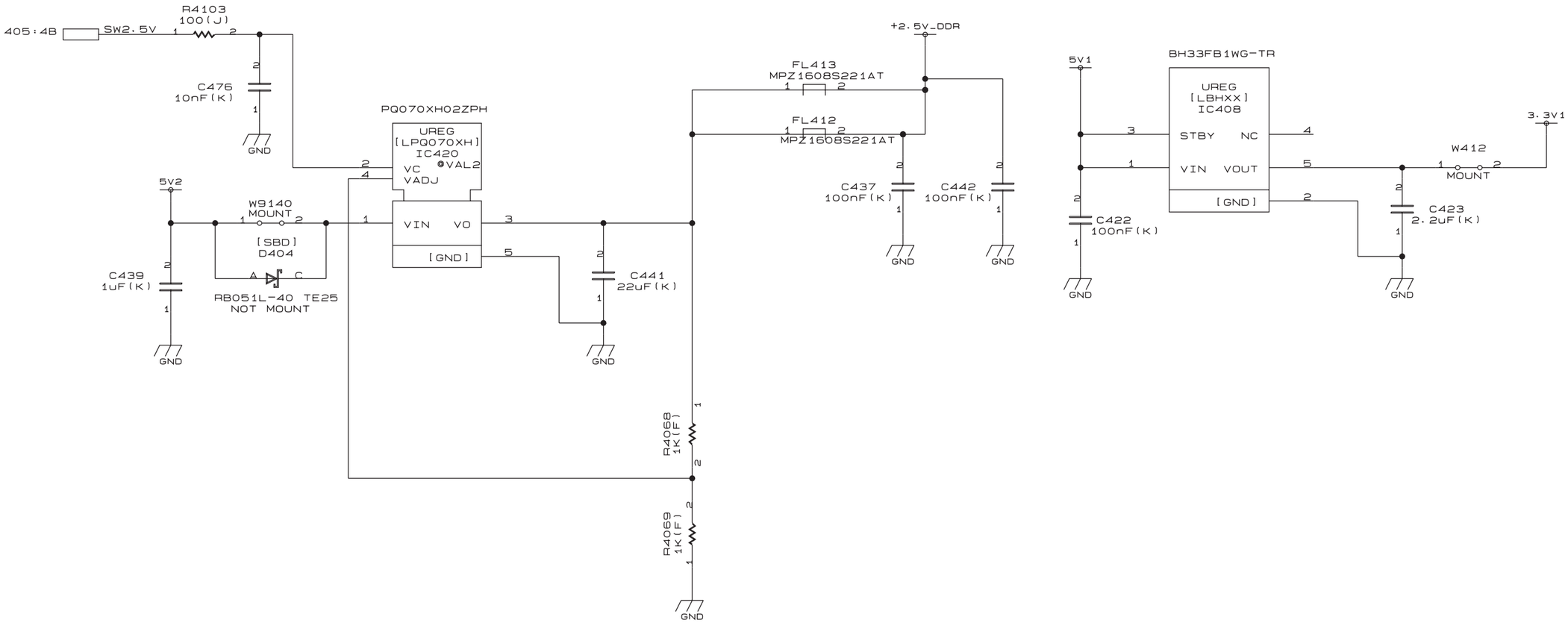
37WL58P
SIGNAL
CORTEZ REG 1

SH.NO.
406



37WL58P
SIGNAL
CORTEZ REG 2

SH.NO.
407



37WL58P
SIGNAL
CORTEZ REG 3

SH.NO.
408

401:1A:402:3A

OCMADDR[0-19]

+3.3V_I/O

NOT MOUNT
R4000 10K(J)
OCMADDR[0]

10K(J)
OCMADDR[1]
OCMADDR[2]
OCMADDR[3]
OCMADDR[4]
RM408
[RMX4A]

R4005 10K(J)
OCMADDR[5]

R4006 10K(J)
OCMADDR[6]

R4007 NOT MOUNT
OCMADDR[7]

R4008 NOT MOUNT
OCMADDR[8]

R4009 NOT MOUNT
OCMADDR[9]

R4010 10K(J)
OCMADDR[10]

R4011 10K(J)
OCMADDR[11]

+3.3V_I/O

R4012 10K(J)
OCMADDR[12]

R4013 10K(J)
OCMADDR[13]

R4014 NOT MOUNT
OCMADDR[14]

R4015 NOT MOUNT
OCMADDR[15]

R4016 NOT MOUNT
OCMADDR[16]

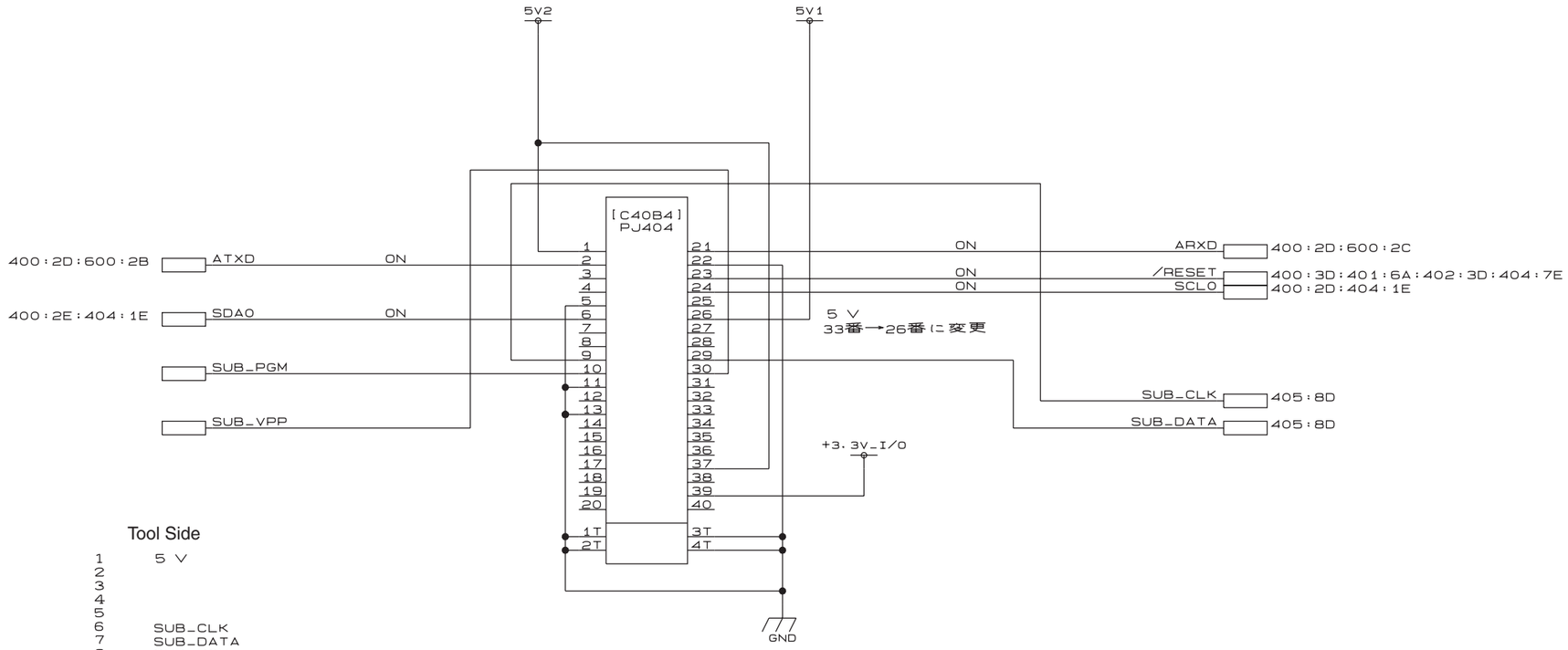
R4017 10K(J)
OCMADDR[17]

R4018 NOT MOUNT
OCMADDR[18]

R4019 1K(J)
OCMADDR[19]

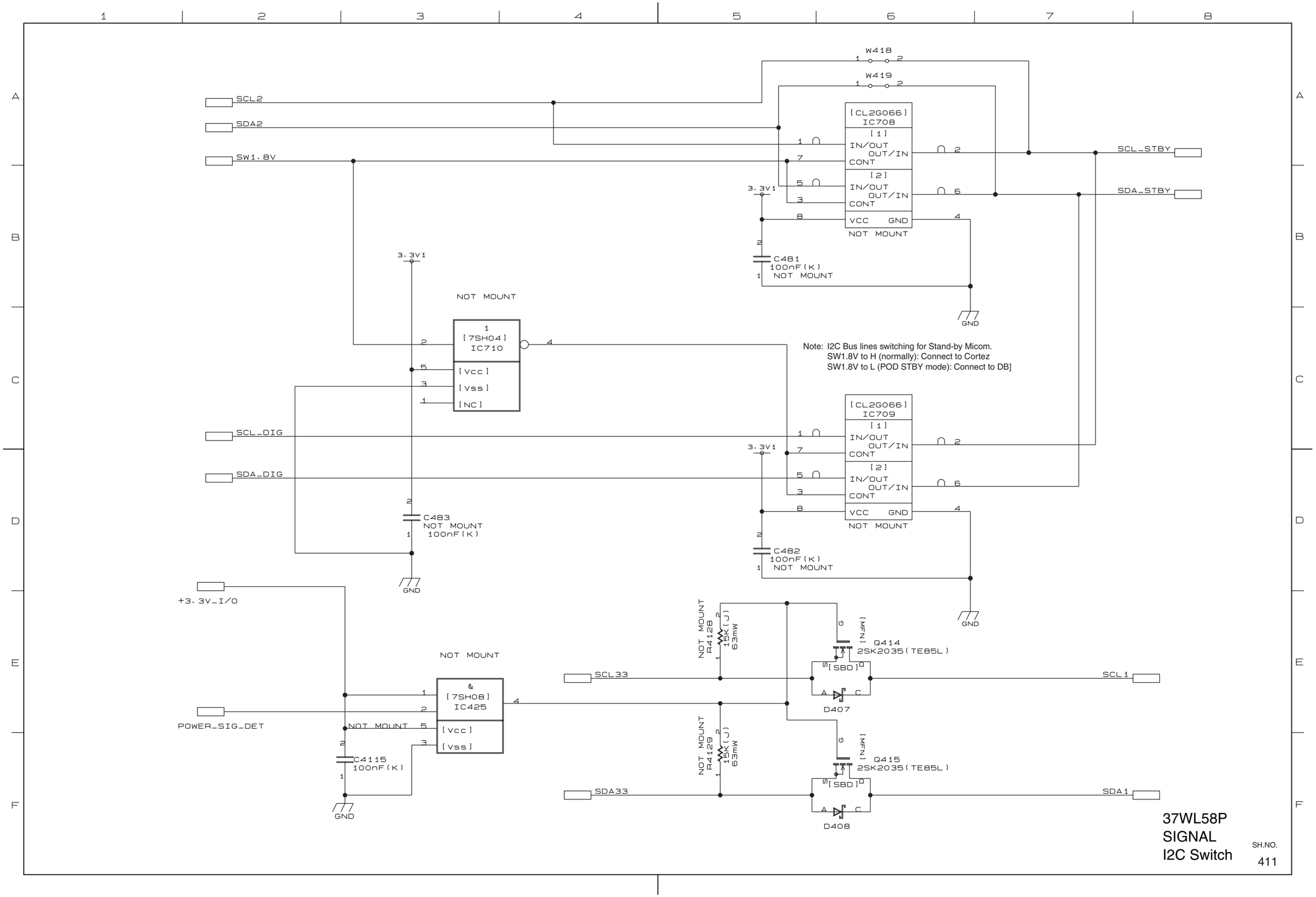
37WL58P
SIGNAL
BOOT CONFIG

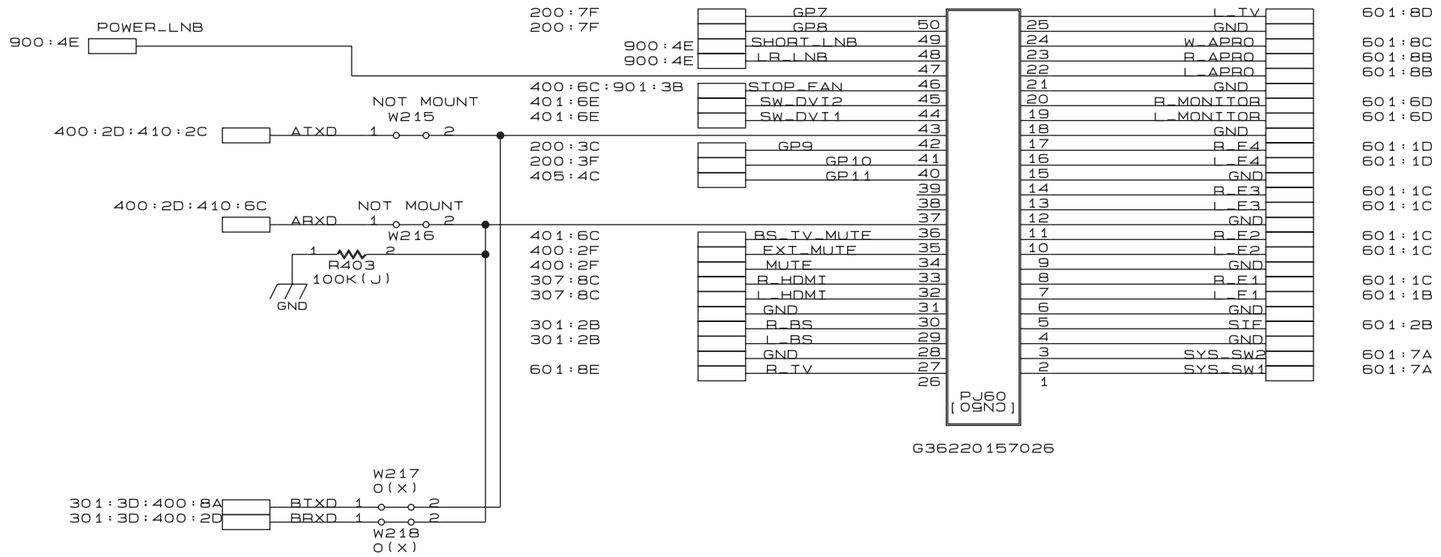
SH.NO.
409



37WL58P
SIGNAL
SERVICE CONNECTOR

SH.NO.
410

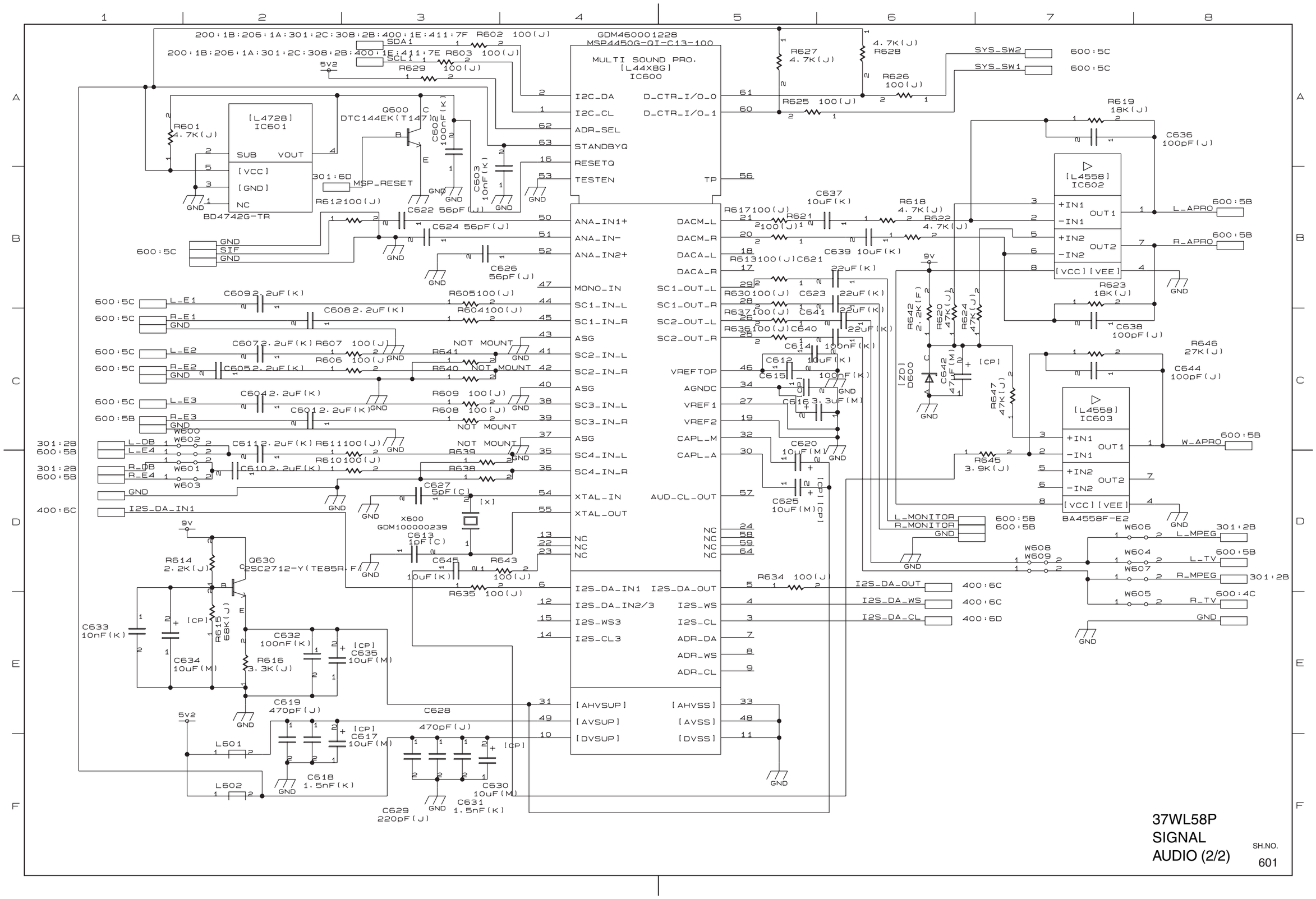

W418
W419
SCL2
SDA2
SW1.8V
[CL2G066]
IC708
[1]
IN/OUT
OUT/IN
CONT
[2]
IN/OUT
OUT/IN
CONT
VCC GND
NOT MOUNT
3.3V1
C481
100nF(K)
NOT MOUNT
SCL_STBY
SDA_STBY
GND
3.3V1
NOT MOUNT
1
[7SH04]
IC710
[Vcc]
[Vss]
[NC]
Note: I2C Bus lines switching for Stand-by Micom.
SW1.8V to H (normally): Connect to Cortez
SW1.8V to L (POD STBY mode): Connect to DB]
SCL_DIG
SDA_DIG
[CL2G066]
IC709
C483
NOT MOUNT
100nF(K)
C482
100nF(K)
NOT MOUNT
GND
+3.3V_I/O
NOT MOUNT
&
[7SH08]
IC425
POWER_SIG_DET
NOT MOUNT
C4115
100nF(K)
NOT MOUNT
R4128
15K(J)
63mW
Q414
2SK2035(TE85L)
[SBD]
D407
SCL33
SCL1
NOT MOUNT
R4129
15K(J)
63mW
Q415
2SK2035(TE85L)
[SBD]
D408
SDA33
SDA1
37WL58P
SIGNAL
I2C Switch
SH.NO.
411

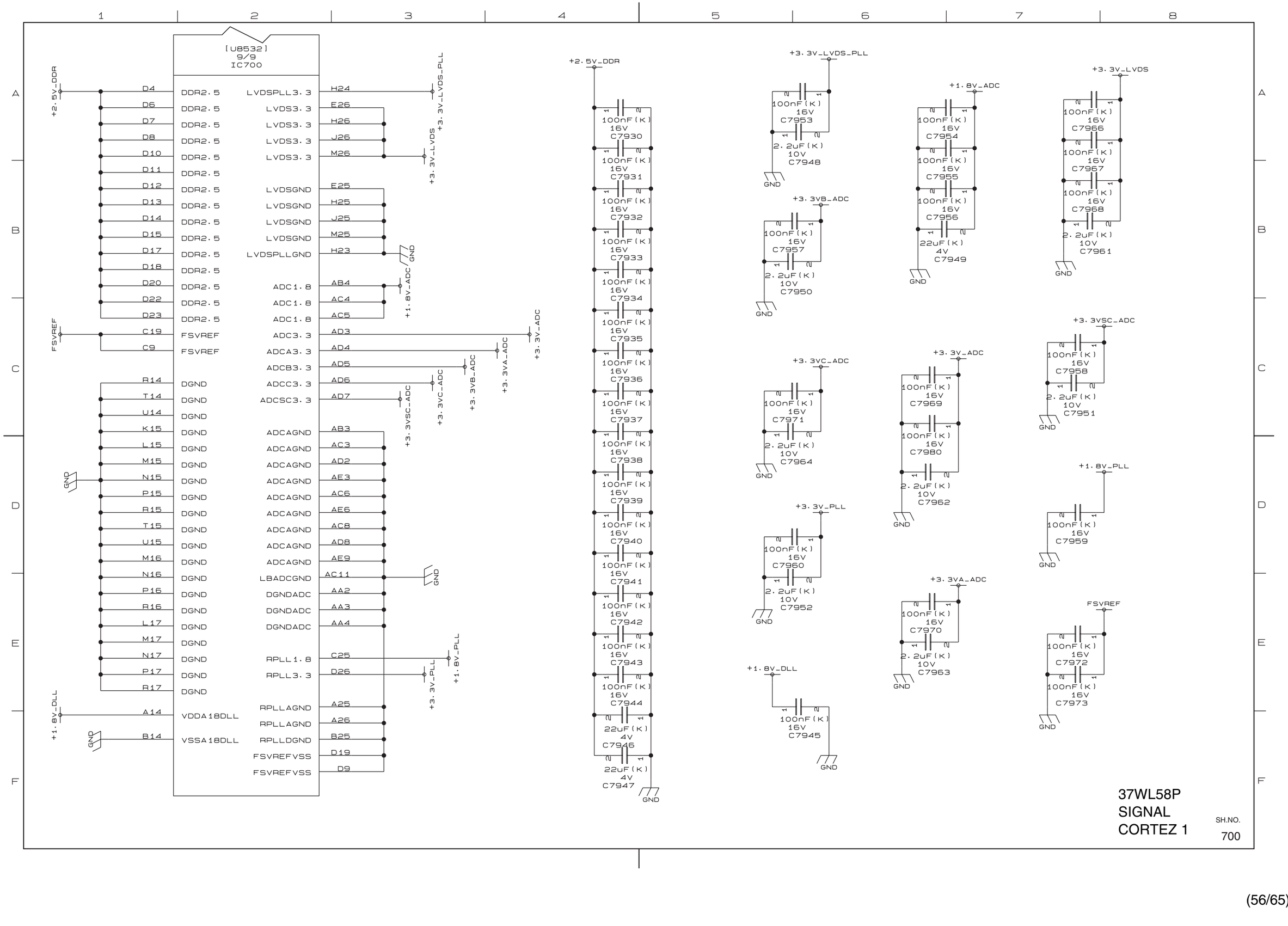


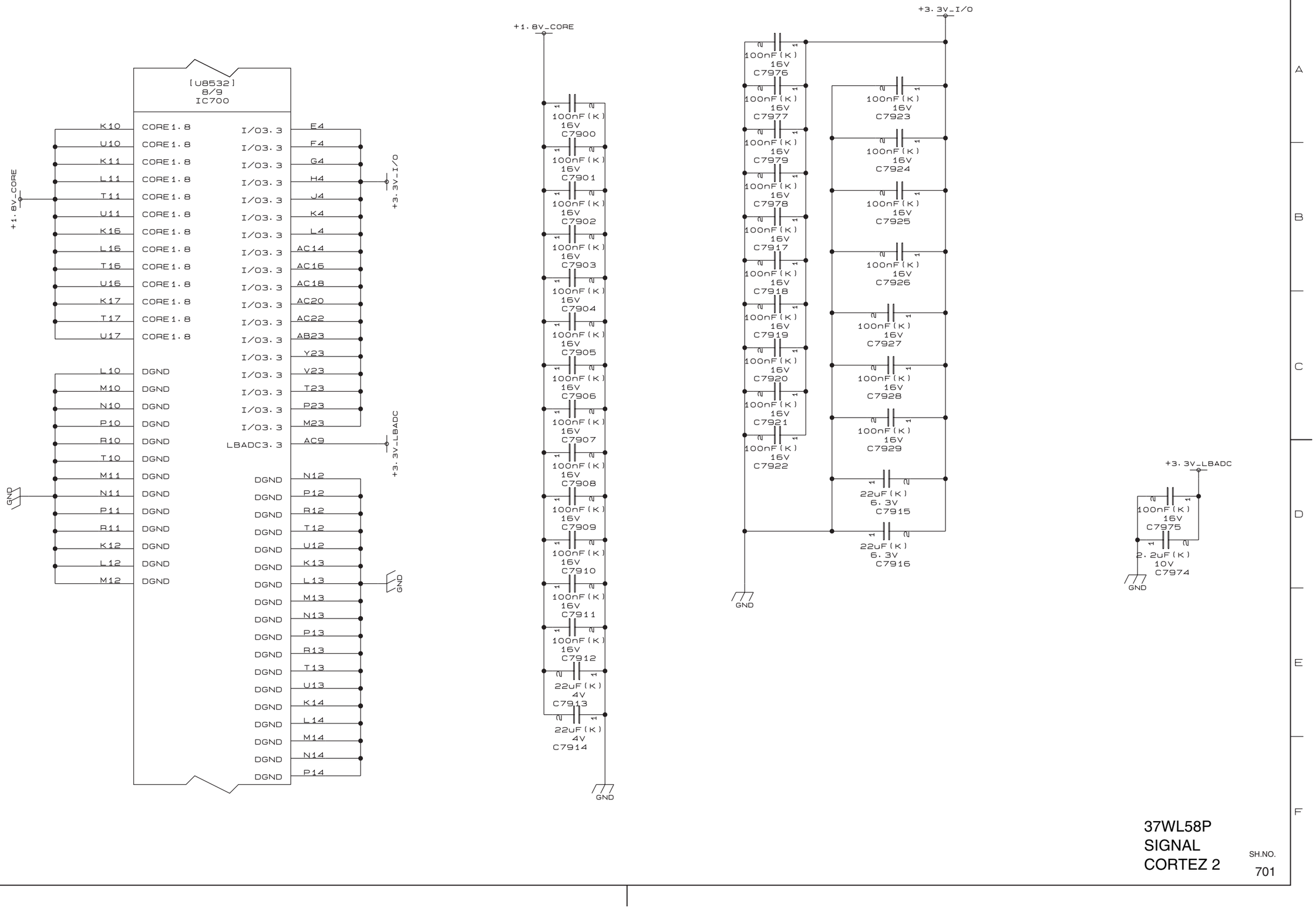
G36220157026

37WL58P
SIGNAL
AUDIO (1/2)

SH.NO.
600


GDM460001228
MSP4450G-QI-C13-100
MULTI SOUND PRO.
[L44X8G]
IC600
I2C_DA
I2C_CL
ADR_SEL
STANDBYQ
RESETQ
TESTEN
D_CTR_I/O_0
D_CTR_I/O_1
TP
ANA_IN1+
ANA_IN-
ANA_IN2+
MONO_IN
SC1_IN_L
SC1_IN_R
ASG
SC2_IN_L
SC2_IN_R
ASG
SC3_IN_L
SC3_IN_R
ASG
SC4_IN_L
SC4_IN_R
XTAL_IN
XTAL_OUT
NC
NC
NC
NC
I2S_DA_IN1
I2S_DA_IN2/3
I2S_WS3
I2S_CL3
I2S_DA_OUT
I2S_WS
I2S_CL
ADR_DA
ADR_WS
ADR_CL
[AHVSUP]
[AVSUP]
[DVSUP]
[AHVSS]
[AVSS]
[DVSS]
DACM_L
DACM_R
DACA_L
DACA_R
SC1_OUT_L
SC1_OUT_R
SC2_OUT_L
SC2_OUT_R
VREFTOP
AGNDC
VREF1
VREF2
CAPL_M
CAPL_A
AUD_CL_OUT
NC
NC
NC
NC
[L4728]
IC601
SUB
VOUT
[VCC]
[GND]
NC
BD4742G-TR
[L4558]
IC602
[L4558]
IC603
BA4558F-E2
+IN1
-IN1
+IN2
-IN2
OUT1
OUT2
[VCC]
[VEE]
Q600
DTC144EK(T147)
Q630
2SC2712-Y(TE85R,F)
MSP_RESET
SDA1
SCL1
5V2
9V
GND
SYS_SW2
SYS_SW1
L_APRO
R_APRO
W_APRO
L_MONITOR
R_MONITOR
L_MPEG
R_MPEG
L_TV
R_TV
I2S_DA_OUT
I2S_DA_WS
I2S_DA_CL
I2S_DA_IN1
L_E1
R_E1
L_E2
R_E2
L_E3
R_E3
L_DB
L_E4
R_DB
R_E4
W600
W601
W602
W603
W604
W605
W606
W607
W608
W609
[ZD]
D600
[CP]
[x]
X600
GDM100000239
R601 4.7K(J)
R602 100(J)
R603 100(J)
R604 100(J)
R605 100(J)
R606 100(J)
R607 100(J)
R608 100(J)
R609 100(J)
R610 100(J)
R611 100(J)
R612 100(J)
R613 100(J)
R614 2.2K(J)
R615 68K(J)
R616 3.3K(J)
R617 100(J)
R618 4.7K(J)
R619 18K(J)
R620 47K(J)
R621 100(J)
R622 4.7K(J)
R623 18K(J)
R624 47K(J)
R625 100(J)
R626 100(J)
R627 4.7K(J)
R628 4.7K(J)
R629 100(J)
R630 100(J)
R634 100(J)
R635 100(J)
R636 100(J)
R637 100(J)
R640 NOT MOUNT
R641 NOT MOUNT
R639 NOT MOUNT
R638 NOT MOUNT
R642 2.2K(F)
R643 100(J)
R645 3.9K(J)
R646 27K(J)
R647 47K(J)
C600 100nF(K)
C601 10nF(K)
C602 2.2uF(K)
C603 10nF(K)
C604 2.2uF(K)
C605 2.2uF(K)
C606 2.2uF(K)
C607 2.2uF(K)
C609 2.2uF(K)
C610 2.2uF(K)
C611 2.2uF(K)
C612 10uF(K)
C613 10pF(C)
C614 100nF(K)
C615 10pF(C)
C616 3.3uF(M)
C617 10uF(M)
C618 1.5nF(K)
C619 470pF(J)
C620 10uF(M)
C621 22uF(K)
C622 56pF(J)
C623 22uF(K)
C624 56pF(J)
C625 10uF(M)
C626 56pF(J)
C627 5pF(C)
C628 470pF(J)
C629 220pF(J)
C630 10uF(M)
C631 1.5nF(K)
C632 100nF(K)
C633 10nF(K)
C634 10uF(M)
C635 10uF(M)
C636 100pF(J)
C637 10uF(K)
C638 100pF(J)
C639 10uF(K)
C640 22uF(K)
C641 22uF(K)
C642 47uF(M)
C644 100pF(J)
301:6D
301:2B
400:6C
600:5C
600:5B
600:4C
37WL58P
SIGNAL
AUDIO (2/2)
SH.NO.
601


[U8532]
9/9
IC700
+2.5V_DDR
D4
D6
D7
D8
D10
D11
D12
D13
D14
D15
D17
D18
D20
D22
D23
DDR2.5
FSVREF
C19
C9
FSVREF
R14
T14
U14
K15
L15
M15
N15
P15
R15
T15
U15
M16
N16
P16
R16
L17
M17
N17
P17
R17
DGND
GND
+1.8V_DLL
A14
VDDA18DLL
GND
B14
VSSA18DLL
LVDSPLL3.3
LVDS3.3
LVDSGND
LVDSPLLGND
H24
E26
H26
J26
M26
E25
H25
J25
M25
H23
+3.3V_LVDS_PLL
+3.3V_LVDS
GND
ADC1.8
ADC3.3
ADCA3.3
ADCB3.3
ADCC3.3
ADCSC3.3
AB4
AC4
AC5
AD3
AD4
AD5
AD6
AD7
+1.8V_ADC
+3.3V_ADC
+3.3VA_ADC
+3.3VB_ADC
+3.3VC_ADC
+3.3VSC_ADC
ADCAGND
LBADCGND
AB3
AC3
AD2
AE3
AC6
AE6
AC8
AD8
AE9
AC11
GND
DGNDADC
AA2
AA3
AA4
RPLL1.8
RPLL3.3
C25
D26
+1.8V_PLL
+3.3V_PLL
RPLLAGND
RPLLDGND
A25
A26
B25
D19
D9
FSVREFVSS
+2.5V_DDR
100nF(K) 16V C7930
100nF(K) 16V C7931
100nF(K) 16V C7932
100nF(K) 16V C7933
100nF(K) 16V C7934
100nF(K) 16V C7935
100nF(K) 16V C7936
100nF(K) 16V C7937
100nF(K) 16V C7938
100nF(K) 16V C7939
100nF(K) 16V C7940
100nF(K) 16V C7941
100nF(K) 16V C7942
100nF(K) 16V C7943
100nF(K) 16V C7944
22uF(K) 4V C7946
22uF(K) 4V C7947
+3.3V_LVDS_PLL
100nF(K) 16V C7953
2.2uF(K) 10V C7948
+3.3VB_ADC
100nF(K) 16V C7957
2.2uF(K) 10V C7950
+3.3VC_ADC
100nF(K) 16V C7971
2.2uF(K) 10V C7964
+3.3V_PLL
100nF(K) 16V C7960
2.2uF(K) 10V C7952
+1.8V_DLL
100nF(K) 16V C7945
+1.8V_ADC
100nF(K) 16V C7954
100nF(K) 16V C7955
100nF(K) 16V C7956
22uF(K) 4V C7949
+3.3V_ADC
100nF(K) 16V C7969
100nF(K) 16V C7980
2.2uF(K) 10V C7962
+3.3VA_ADC
100nF(K) 16V C7970
2.2uF(K) 10V C7963
+3.3V_LVDS
100nF(K) 16V C7966
100nF(K) 16V C7967
100nF(K) 16V C7968
2.2uF(K) 10V C7961
+3.3VSC_ADC
100nF(K) 16V C7958
2.2uF(K) 10V C7951
+1.8V_PLL
100nF(K) 16V C7959
FSVREF
100nF(K) 16V C7972
100nF(K) 16V C7973
37WL58P
SIGNAL
CORTEZ 1
SH.NO.
700


[U8532]
8/9
IC700
K10 CORE1.8
U10 CORE1.8
K11 CORE1.8
L11 CORE1.8
T11 CORE1.8
U11 CORE1.8
K16 CORE1.8
L16 CORE1.8
T16 CORE1.8
U16 CORE1.8
K17 CORE1.8
T17 CORE1.8
U17 CORE1.8
+1.8V_CORE
L10 DGND
M10 DGND
N10 DGND
P10 DGND
R10 DGND
T10 DGND
M11 DGND
N11 DGND
P11 DGND
R11 DGND
K12 DGND
L12 DGND
M12 DGND
GND
I/O3.3 E4
I/O3.3 F4
I/O3.3 G4
I/O3.3 H4
I/O3.3 J4
I/O3.3 K4
I/O3.3 L4
I/O3.3 AC14
I/O3.3 AC16
I/O3.3 AC18
I/O3.3 AC20
I/O3.3 AC22
I/O3.3 AB23
I/O3.3 Y23
I/O3.3 V23
I/O3.3 T23
I/O3.3 P23
I/O3.3 M23
LBADC3.3 AC9
+3.3V_I/O
+3.3V_LBADC
DGND N12
DGND P12
DGND R12
DGND T12
DGND U12
DGND K13
DGND L13
DGND M13
DGND N13
DGND P13
DGND R13
DGND T13
DGND U13
DGND K14
DGND L14
DGND M14
DGND N14
DGND P14
GND
+1.8V_CORE
100nF(K) 16V C7900
100nF(K) 16V C7901
100nF(K) 16V C7902
100nF(K) 16V C7903
100nF(K) 16V C7904
100nF(K) 16V C7905
100nF(K) 16V C7906
100nF(K) 16V C7907
100nF(K) 16V C7908
100nF(K) 16V C7909
100nF(K) 16V C7910
100nF(K) 16V C7911
100nF(K) 16V C7912
22uF(K) 4V C7913
22uF(K) 4V C7914
GND
+3.3V_I/O
100nF(K) 16V C7976
100nF(K) 16V C7977
100nF(K) 16V C7979
100nF(K) 16V C7978
100nF(K) 16V C7917
100nF(K) 16V C7918
100nF(K) 16V C7919
100nF(K) 16V C7920
100nF(K) 16V C7921
100nF(K) 16V C7922
100nF(K) 16V C7923
100nF(K) 16V C7924
100nF(K) 16V C7925
100nF(K) 16V C7926
100nF(K) 16V C7927
100nF(K) 16V C7928
100nF(K) 16V C7929
22uF(K) 6.3V C7915
22uF(K) 6.3V C7916
GND
+3.3V_LBADC
100nF(K) 16V C7975
2.2uF(K) 10V C7974
GND
37WL58P
SIGNAL
CORTEZ 2
SH.NO.
701

/FSCAS. /FSCS[0-1]. /FSRAS. /FSWE. FSADDR[0-12]. FSBKSEL[0-1]. FSCKE. FSCLK+. FSCLK-. FSDATA[0-31]. FSDQM[0-3]. FSDQS[0-3]

[U8532]
5/9
IC700

FSDATA0	B4	FSBKSEL1	C20
FSDATA1	A4	FSBKSEL0	C21
FSDATA2	B5	FSCKE	C4
FSDATA3	A5	FSRAS	C24
FSDATA4	B7	FSCAS	D24
FSDATA5	A7	FSWE	C23
FSDATA6	B8		
FSDATA7	A8	FSDQM3	B22
FSDATA8	B9	FSDQM2	B17
FSDATA9	A9	FSDQM1	A11
FSDATA10	B10	FSDQM0	A6
FSDATA11	A10	FSDQS3	A22
FSDATA12	B12	FSDQS2	A17
FSDATA13	A12	FSDQS1	B11
FSDATA14	B13	FSDQS0	B6
FSDATA15	A13	FSCS1	C22
FSDATA16	B15	FSCS0	D21
FSDATA17	A15	FSCLKn	C5
FSDATA18	B16	FSCLKp	D5
FSDATA19	A16		
FSDATA20	B18	FSADDR12	C11
FSDATA21	A18	FSADDR11	C14
FSDATA22	B19	FSADDR10	D16
FSDATA23	A19	FSADDR9	C12
FSDATA24	B20	FSADDR8	C6
FSDATA25	A20	FSADDR7	C7
FSDATA26	B21	FSADDR6	C8
FSDATA27	A21	FSADDR5	C10
FSDATA28	B23	FSADDR4	C13
FSDATA29	A23	FSADDR3	C15
FSDATA30	B24	FSADDR2	C16
FSDATA31	A24	FSADDR1	C17
		FSADDR0	C18

RM700 [RMX4A] 33(J): FSDATA[15] FSDATA[14] FSDATA[13] FSDATA[12]
RM701 [RMX4A] 33(J): FSDATA[11] FSDATA[10] FSDATA[9] FSDATA[8]
RM702 [RMX4A] 33(J): FSDATA[7] FSDATA[6] FSDATA[5] FSDATA[4]
RM703 [RMX4A] 33(J): FSDATA[3] FSDATA[2] FSDATA[1] FSDATA[0]
RM704 [RMX4A] 33(J): FSDATA[31] FSDATA[30] FSDATA[29] FSDATA[28]
RM705 [RMX4A] 33(J): FSDATA[27] FSDATA[26] FSDATA[25] FSDATA[24]
RM706 [RMX4A] 33(J): FSDATA[23] FSDATA[22] FSDATA[21] FSDATA[20]
RM737 [RMX4A] 33(J): FSDATA[19] FSDATA[18] FSDATA[17] FSDATA[16]

R736 FSBKSEL[1]
R735 FSBKSEL[0]
R734 FSCKE
RM707 [RMx4A] 33(J): /FSRAS /FSCAS /FSWE
R740 FSDQM[2]
R739 FSDQM[3]
R738 FSDQM[0]
R737 FSDQM[1]
R744 FSDQS[2]
R743 FSDQS[3]
R742 FSDQS[0]
R741 FSDQS[1]
R716 /FSCS[1]
R717 /FSCS[0]
R718 FSCLK-
R719 FSCLK+
RM708 [RMx4A] 33(J): FSADDR[11] FSADDR[4] FSADDR[9] FSADDR[12]
R707 33(J) FSADDR[10]
RM709 [RMX4A] 33(J): FSADDR[8] FSADDR[7] FSADDR[6] FSADDR[5]
RM710 [RMX4A] 33(J): FSADDR[3] FSADDR[2] FSADDR[1] FSADDR[0]

37WL58P
SIGNAL
DDR I/F

SH.NO.
702

/FSCAS. /FSCS[0]. /FSRAS. /FSWE. FSADDR[0-12]. FSBKSEL[0-1]. FSCKE. FSCLK+. FSCLK-. FSDQM[0-1]. FSDQS[0-1]

HY5DU281622ETP-5 [MDSD8M16] IC701

/FSCAS. /FSCS[0]. /FSRAS. /FSWE
FSADDR[0-12]. FSBKSEL[0-1]. FSCKE
FSCLK+. FSCLK-. FSDATA[0-15]
FSDQM[2-3]. FSDQS[2-3]

HY5DU281622ETP-5 [MDSD8M16] IC702

FSDATA[16-31]

FSADDR[0] 29 A0
FSADDR[1] 30 A1
FSADDR[2] 31 A2
FSADDR[3] 32 A3
FSADDR[4] 35 A4
FSADDR[5] 36 A5
FSADDR[6] 37 A6
FSADDR[7] 38 A7
FSADDR[8] 39 A8
FSADDR[9] 40 A9
FSADDR[10] 28 A10/AP
FSADDR[11] 41 A11

FSBKSEL[1] 27 BS1
FSBKSEL[0] 26 BS0
FSCLK- 46 CLK
FSCLK+ 45 CLK
FSCKE 44 CKE

R732 220(J) NOT MOUNT
R733 220(J) NOT MOUNT

/FSCS[0] 24 CS
/FSRAS 23 RAS
/FSCAS 22 CAS
/FSWE 21 WE

R720 33(J) FSDQM[0] 20 LDM
R721 33(J) FSDQM[1] 47 UDM
R722 33(J) FSDQS[0] 16 LDQS
R723 33(J) FSDQS[1] 51 UDQS
R724 33(J) FSDQM[2] 20 LDM
R725 33(J) FSDQM[3] 47 UDM
R726 33(J) FSDQS[2] 16 LDQS
R727 33(J) FSDQS[3] 51 UDQS

14 NC
17 NC
19 NC
25 NC
FSADDR[12] 42 NC
43 NC
50 NC
53 NC

DQ0 DQ1 DQ2 DQ3 DQ4 DQ5 DQ6 DQ7 DQ8 DQ9 DQ10 DQ11 DQ12 DQ13 DQ14 DQ15

[RMX4A] RM711 33(J): FSDATA[0] FSDATA[1] FSDATA[2] FSDATA[3]
[RMX4A] RM712 33(J): FSDATA[4] FSDATA[5] FSDATA[6] FSDATA[7]
[RMX4A] RM713 33(J): FSDATA[8] FSDATA[9] FSDATA[10] FSDATA[11]
[RMX4A] RM714 33(J): FSDATA[12] FSDATA[13] FSDATA[14] FSDATA[15]
[RMX4A] RM715 33(J): FSDATA[16] FSDATA[17] FSDATA[18] FSDATA[19]
[RMX4A] RM716 33(J): FSDATA[20] FSDATA[21] FSDATA[22] FSDATA[23]
[RMX4A] RM717 33(J): FSDATA[24] FSDATA[25] FSDATA[26] FSDATA[27]
[RMX4A] RM718 33(J): FSDATA[28] FSDATA[29] FSDATA[30] FSDATA[31]

+2.5V_DDR
FSVREF

C774 100nF(K)
C775 100nF(K)
C776 100nF(K)
C777 100nF(K)
C778 100nF(K)
C779 100nF(K)
C780 100nF(K)
C781 100nF(K)
C782 100nF(K)
C783 100nF(K)
C784 100nF(K)
C785 100nF(K)
C786 100nF(K)
C787 100nF(K)

3 [VDDQ] [VSSQ] 6
9 [VDDQ] [VSSQ] 12
15 [VDDQ] [VSSQ] 52
55 [VDDQ] [VSSQ] 58
61 [VDDQ] [VSSQ] 64
1 [VDD] [VSS] 34
18 [VDD] [VSS] 48
33 [VDD] [VSS] 66
49 [VREF]

GND

37WL58P
SIGNAL
DDR SDRAM

SH.NO.
703

/FSCAS. /FSCS[0-1]. /FSRAS. /FSWE. FSADDR[0-12]. FSBKSEL[0-1]. FSCKE. FSCLK+. FSCLK-. FSDATA[0-31]. FSDQM[0-3]. FSDQS[0-3]

[RMX4A] RM719 — FSDATA[31] FSDATA[30] FSDATA[29] FSDATA[28] — 150(J)
[RMX4A] RM720 — FSDATA[27] FSDATA[26] FSDATA[25] FSDATA[24] — 150(J)
[RMX4A] RM721 — FSDATA[23] FSDATA[22] FSDATA[21] FSDATA[20] — 150(J)
[RMX4A] RM723 — FSDATA[19] FSDATA[18] FSDATA[17] FSDATA[16] — 150(J)
[RMX4A] RM725 — FSDATA[15] FSDATA[14] FSDATA[13] FSDATA[12] — 150(J)
[RMX4A] RM727 — FSDATA[11] FSDATA[10] FSDATA[9] FSDATA[8] — 150(J)
[RMX4A] RM729 — FSDATA[7] FSDATA[6] FSDATA[5] FSDATA[4] — 150(J)
[RMX4A] RM730 — FSDATA[3] FSDATA[2] FSDATA[1] FSDATA[0] — 150(J)
R731 — FSADDR[10] — 150(J)
[RMX4A] RM731 — FSADDR[11] FSADDR[4] FSADDR[9] FSADDR[12] — 150(J)
[RMX4A] RM732 — FSADDR[5] FSADDR[6] FSADDR[7] FSADDR[8] — 150(J)
[RMX4A] RM733 — FSADDR[0] FSADDR[1] FSADDR[2] FSADDR[3] — 150(J)

C791 100nF(K)
C792 100nF(K)
C793 100nF(K)
C795 100nF(K)
C797 100nF(K)
C799 100nF(K)
C7001 100nF(K)
C7003 100nF(K)
C7004 100nF(K)
C7005 100nF(K)
C7006 100nF(K)

GND

+2.5V_DDR

R9220 10K(F) MOUNT

REG. [L2995]
IC703 LP2995MX
VDDQ
VREF
VSENSE
NC
VTT
[AVIN]
[PVIN]
[GND]

FSVREF

W9116

C773 22uF(K) 4V MOUNT

C788 1uF(K) 10V

C789 220uF(M) [CP] 16V

C790 10nF(K)

R9221 10K(F) MOUNT

GND

FSBRAS FSCAS FSWE — FSCS[1] FSCS[0] FSBKSEL[0] FSBKSEL[1] — FSDQS[1] FSDQM[1] FSDQM[0] FSDQS[0] — FSDQS[3] FSDQM[3] FSDQM[2] FSDQS[2] — FSCLK- FSCLK+ FSCKE

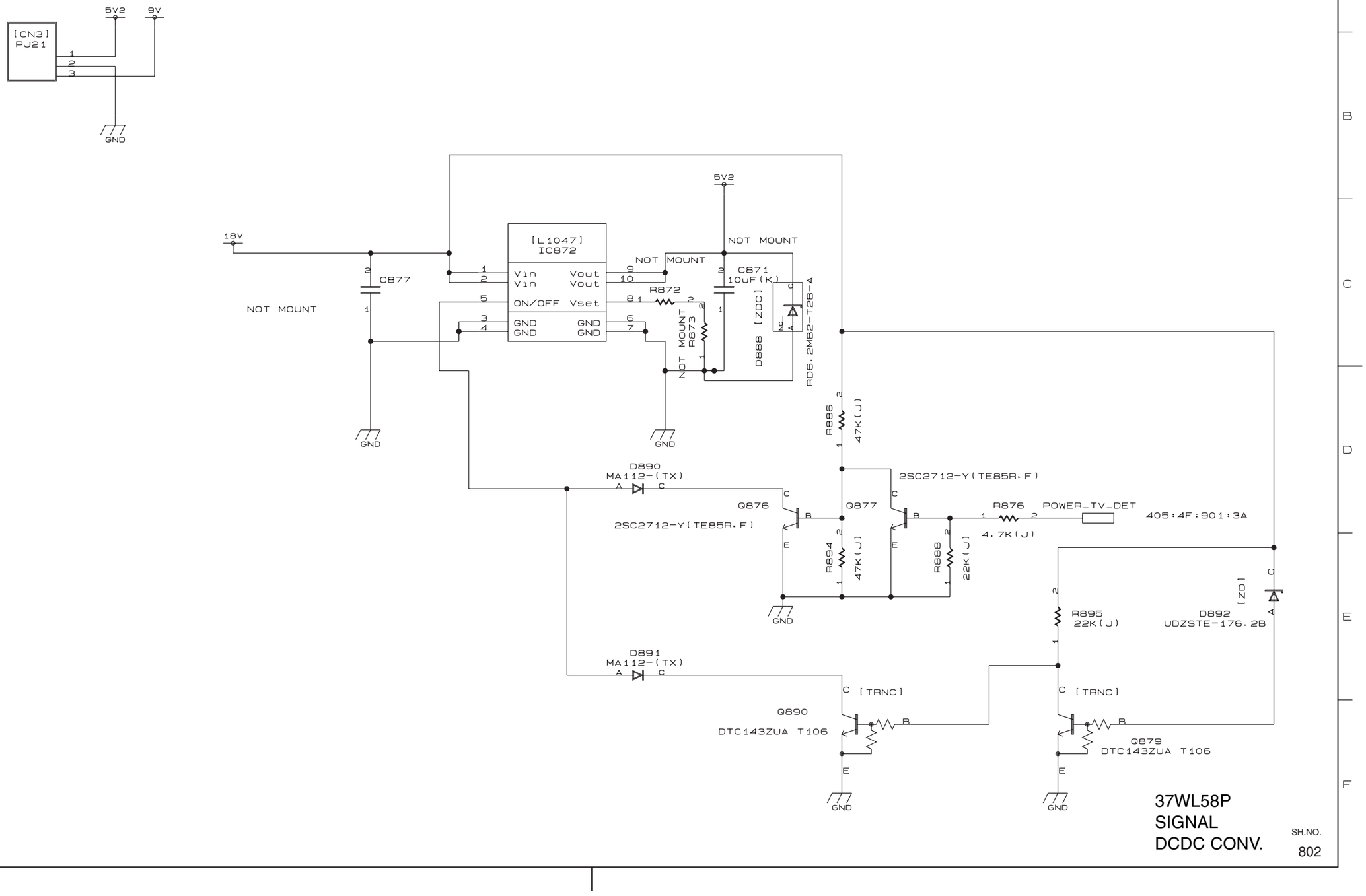
[RMX4A] RM722 — 150(J)
[RMX4A] RM724 — 150(J)
[RMX4A] RM726 — 150(J)
[RMX4A] RM728 — 150(J)
R728 150(J)
R729 150(J)
R730 150(J)

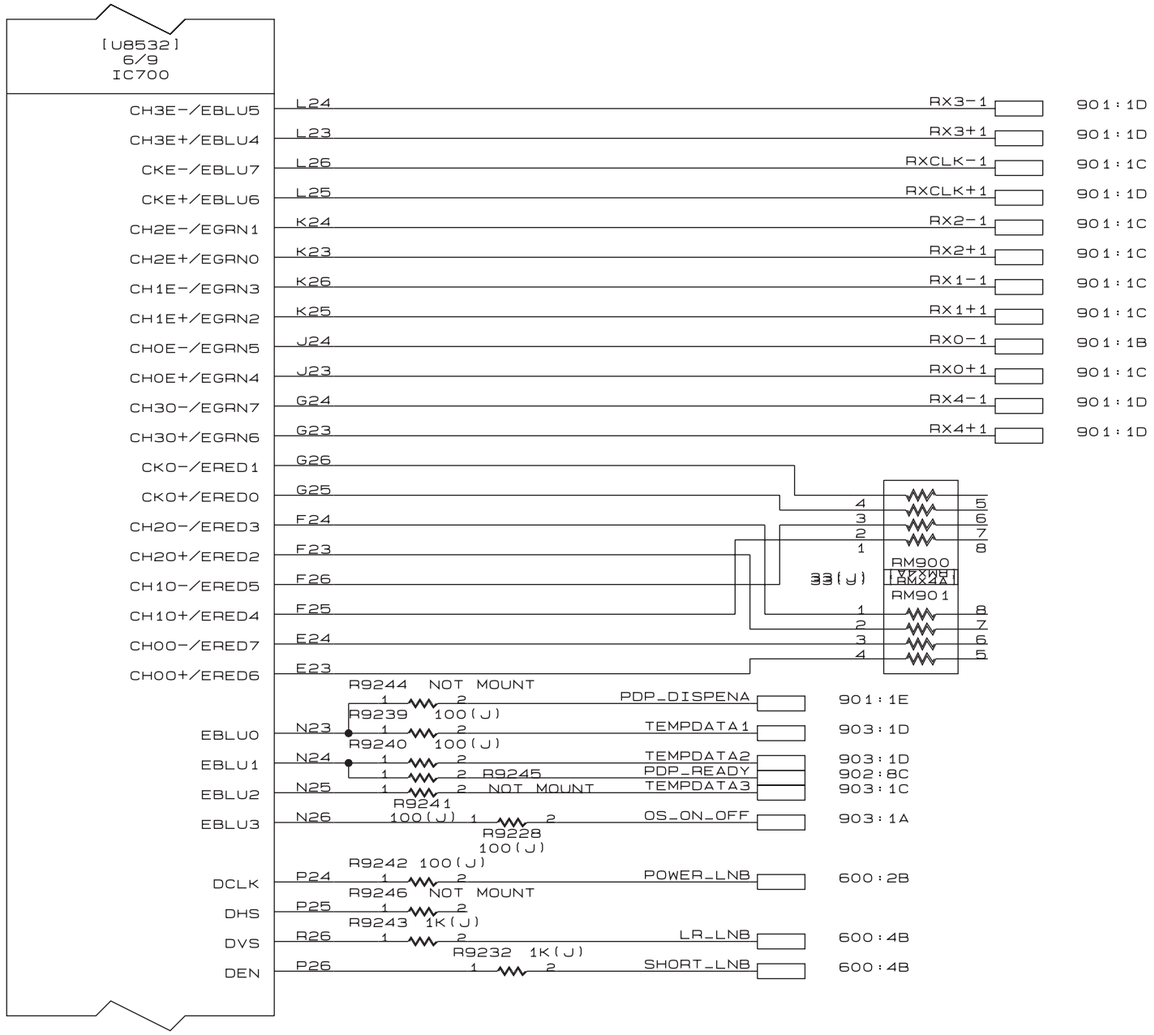
C794 100nF(K)
C796 100nF(K)
C798 100nF(K)
C7000 100nF(K)
C7002 100nF(K)

GND

37WL58P
SIGNAL
DDR TERMINATION

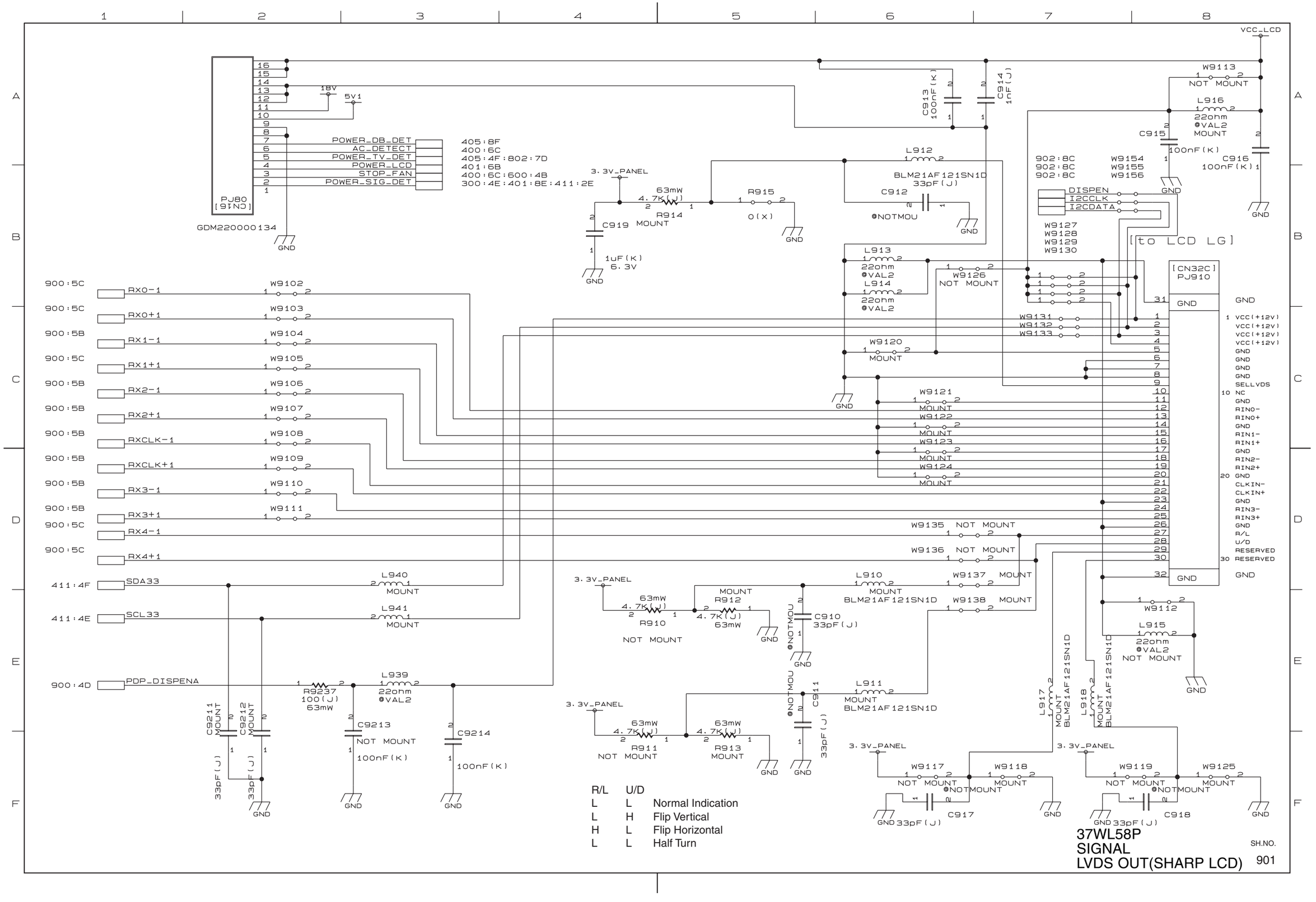
SH.NO. 704

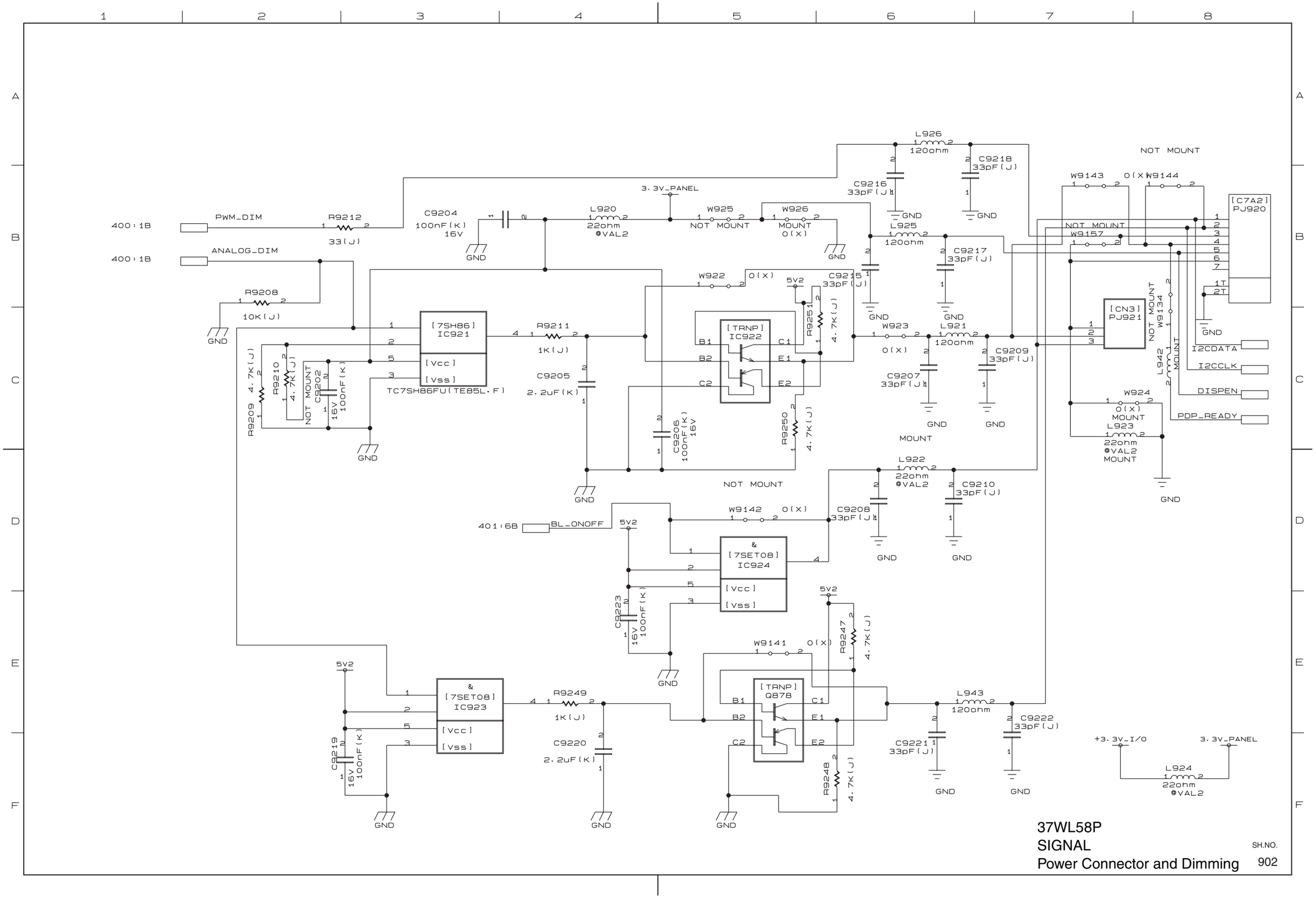

[CN3]
PJ21
1
2
3
5V2
9V
GND
18V
C877
NOT MOUNT
[L1047]
IC872
Vin
Vin
ON/OFF
GND
GND
Vout
Vout
Vset
GND
GND
R872
NOT MOUNT
R873
NOT MOUNT
C871
10uF(K)
D888 [ZDC]
RD6.2MB2-T2B-A
5V2
R886
47K(J)
D890
MA112-(TX)
2SC2712-Y(TE85R.F)
Q876
2SC2712-Y(TE85R.F)
Q877
2SC2712-Y(TE85R.F)
R876
POWER_TV_DET
405:4F:901:3A
4.7K(J)
R894
47K(J)
R888
22K(J)
R895
22K(J)
D892
UDZSTE-176.2B
[ZD]
D891
MA112-(TX)
[TRNC]
Q890
DTC143ZUA T106
[TRNC]
Q879
DTC143ZUA T106
37WL58P
SIGNAL
DCDC CONV.
SH.NO.
802



37WL58P
SIGNAL
LVDS OUT

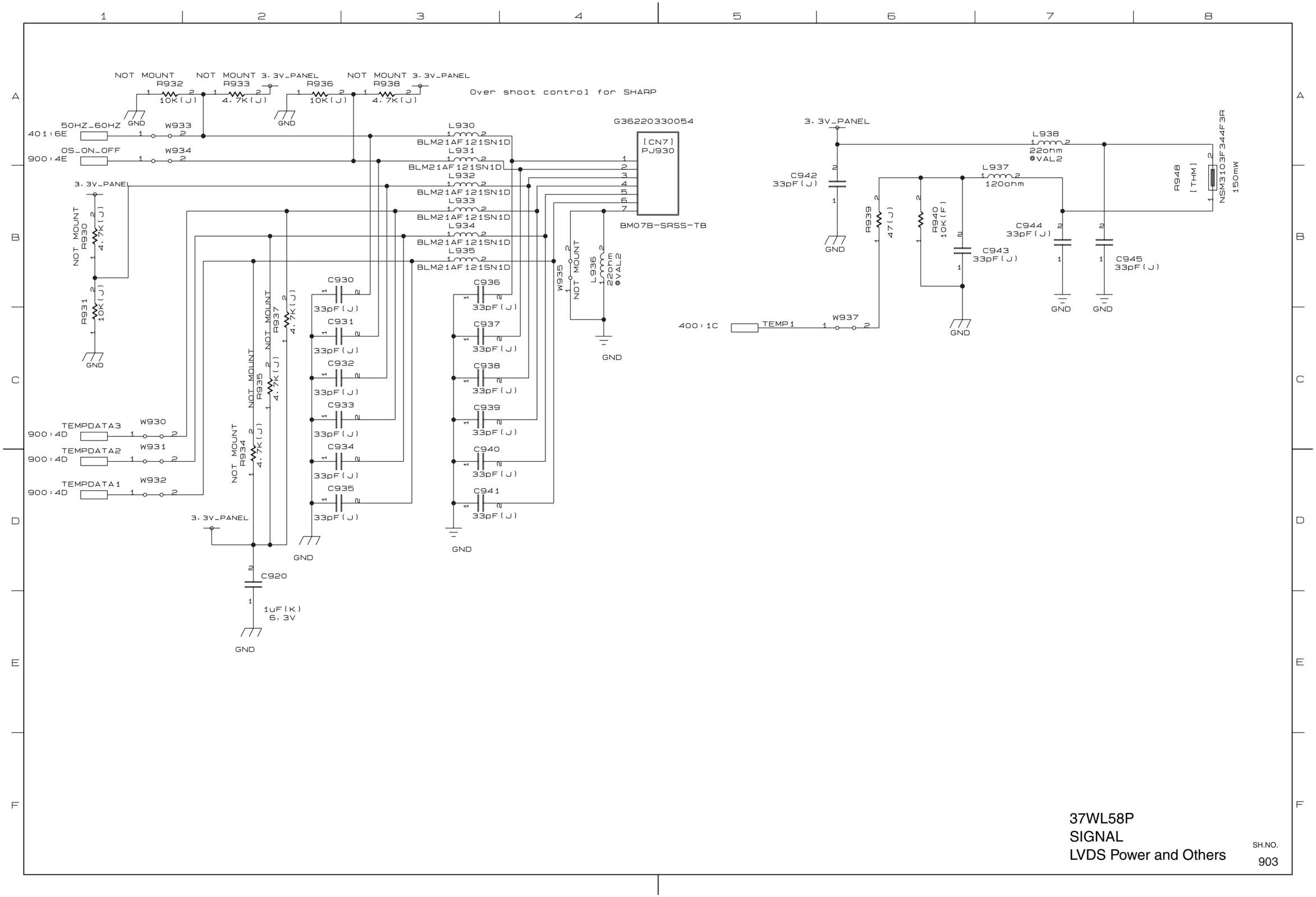
SH.NO.
900


PJ80 [CN16]
GDM220000134
POWER_DB_DET
AC_DETECT
POWER_TV_DET
POWER_LCD
STOP_FAN
POWER_SIG_DET
405:8F
400:6C
405:4F:802:7D
401:6B
400:6C:600:4B
300:4E:401:8E:411:2E
18V
5V1
VCC_LCD
3.3V_PANEL
63mW
4.7K(J)
R914 MOUNT
R915
0(X)
C919
1uF(K)
6.3V
C913 100nF(K)
C914 1nF(J)
L912
BLM21AF121SN1D
33pF(J)
C912
@NOTMOU
W9113 NOT MOUNT
L916
220ohm
@VAL2
MOUNT
C915
100nF(K)
C916
100nF(K)
902:8C
W9154
W9155
W9156
DISPEN
I2CCLK
I2CDATA
W9127
W9128
W9129
W9130
[to LCD LG]
[CN32C]
PJ910
L913
22ohm
@VAL2
L914
W9126 NOT MOUNT
W9131
W9132
W9133
W9120 MOUNT
W9121 MOUNT
W9122 MOUNT
W9123 MOUNT
W9124 MOUNT
900:5C RX0-1
900:5C RX0+1
900:5B RX1-1
900:5C RX1+1
900:5B RX2-1
900:5B RX2+1
900:5B RXCLK-1
900:5B RXCLK+1
900:5B RX3-1
900:5B RX3+1
900:5C RX4-1
900:5C RX4+1
W9102
W9103
W9104
W9105
W9106
W9107
W9108
W9109
W9110
W9111
411:4F SDA33
411:4E SCL33
L940 MOUNT
L941 MOUNT
W9135 NOT MOUNT
W9136 NOT MOUNT
W9137 MOUNT
W9138 MOUNT
L910 MOUNT BLM21AF121SN1D
R912 4.7K(J) 63mW
R910 NOT MOUNT
C910 33pF(J)
@NOTMOU
L911 MOUNT BLM21AF121SN1D
R911 NOT MOUNT
R913 MOUNT
C911 33pF(J)
W9112
L915 220ohm @VAL2 NOT MOUNT
L917 MOUNT BLM21AF121SN1D
L918 MOUNT BLM21AF121SN1D
900:4D PDP_DISPENA
R9237 100(J) 63mW
L939 220ohm @VAL2
C9211 MOUNT 33pF(J)
C9212 MOUNT 33pF(J)
C9213 NOT MOUNT 100nF(K)
C9214 100nF(K)
W9117 NOT MOUNT
W9118 MOUNT
W9119 NOT MOUNT
W9125 MOUNT
C917 33pF(J)
C918 33pF(J)
GND
SELLVDS
NC
RIN0-
RIN0+
RIN1-
RIN1+
RIN2-
RIN2+
CLKIN-
CLKIN+
RIN3-
RIN3+
R/L
U/D
RESERVED
R/L U/D
L L Normal Indication
L H Flip Vertical
H L Flip Horizontal
L L Half Turn
37WL58P
SIGNAL
LVDS OUT(SHARP LCD)
SH.NO.
901



37WL58P
SIGNAL
Power Connector and Dimming

SH.NO. 902



37WL58P
SIGNAL
LVDS Power and Others

SH.NO.
903